STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
NBU 922-36B4BS

2. TYPE OF WORK
DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
NATURAL BUTTES

4. TYPE OF WELL
Gas Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME
NATURAL BUTTES

6. NAME OF OPERATOR
KERR-MCGEE OIL & GAS ONSHORE, L.P.

7. OPERATOR PHONE
720 929-6515

8. ADDRESS OF OPERATOR
P.O. Box 173779, Denver, CO, 80217

9. OPERATOR E-MAIL
julie.jacobson@anadarko.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
ML-22650

11. MINERAL OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ● FEE ○

12. SURFACE OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ● FEE ○

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ● (Submit Commingling Application) NO ○

19. SLANT
VERTICAL ○ DIRECTIONAL ● HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	682 FNL 2264 FEL	NWNE	36	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	905 FNL 1828 FEL	NWNE	36	9.0 S	22.0 E	S
At Total Depth	905 FNL 1828 FEL	NWNE	36	9.0 S	22.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
905

23. NUMBER OF ACRES IN DRILLING UNIT
640

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
232

26. PROPOSED DEPTH
MD: 8840 TVD: 8792

27. ELEVATION - GROUND LEVEL
5015

28. BOND NUMBER
22013542

29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE
Permit #43-8496

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2360	28.0	J-55 ST&C	8.4	Premium Plus	180	1.15	15.8
							Premium Plus	270	1.15	15.8
Prod	7.875	4.5	0 - 8840	11.6	I-80 LT&C	12.5	Premium Lite High Strength	290	3.38	11.0
							50/50 Poz	1180	1.31	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

NAME Gina Becker | **TITLE** Regulatory Analyst II | **PHONE** 720 929-6086

SIGNATURE | **DATE** 05/13/2011 | **EMAIL** gina.becker@anadarko.com

API NUMBER ASSIGNED
43047516110000

APPROVAL

Permit Manager

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Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-36B4BS

Surface:	682 FNL / 2264 FEL	NWNE
BHL:	905 FNL / 1828 FEL	NWNE

Section 36 T9S R22E

Unitah County, Utah
Mineral Lease: ML-22650

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1260	
Birds Nest	1552	Water
Mahogany	1908	Water
Wasatch	4361	Gas
Mesaverde	6561	Gas
MVU2	7546	Gas
MVL1	8143	Gas
TVD	8792	
TD	8840	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

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7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8792' TVD, approximately equals 5,803 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,680 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

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Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

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on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

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KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	May 6, 2011
WELL NAME	**NBU 922-36B4BS**			TD	8,792' TVD 8,840' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5015.3
SURFACE LOCATION	NWNE 682 FNL 2264 FEL Sec 36 T 9S R 22E				
	Latitude: 39.99793 Longitude: -109.386313 NAD 27				
BTM HOLE LOCATION	NWNE 905 FNL 1828 FEL Sec 36 T 9S R 22E				
	Latitude: 39.997312 Longitude: -109.384756 NAD 27				
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			12-1/4	8-5/8", 28#, IJ-55, LTC	Air mist
		200'			
			11'	8-5/8", 28#, IJ-55, LTC	Air mist

All water flows encountered while drilling will be reported to the appropriate agencies.

Green River @	1,260'
Top of Birds Nest @	1,552'
Mahogany @	1,908'
Preset f/ GL @	2,360' MD

Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Wasatch @	4,361'
Mverde @	6,561' TVD
MVU2 @	7,546' TVD
MVU1 @	8,143' TVD

Mud logging program TBD

Cased hole logging program from TD - surf csg

	7-7/8"	4-1/2" 11.6# I-80 or equivalent BTC/LTC csg	Water / Fresh Water Mud 8.3-12.0 ppg

Max anticipated Mud required 12.5 ppg

TD @ 8,792' TVD 8,840' MD

API Well Number: 43047516110000

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC	BTC TENSION
CONDUCTOR	14"	0-40'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,360	28.00	IJ-55	LTC	2.29	1.70	6.01	N/A
						7,780	6,350	279,000	367,000
PRODUCTION	4-1/2"	0 to 8,840	11.60	I-80	LTC/BTC	1.11	1.11	3.36	4.42

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1,860'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,860'	Premium Lite II +0.25 pps	290	20%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	4,980'	50/50 Poz/G + 10% salt + 2% gel	1,180	35%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

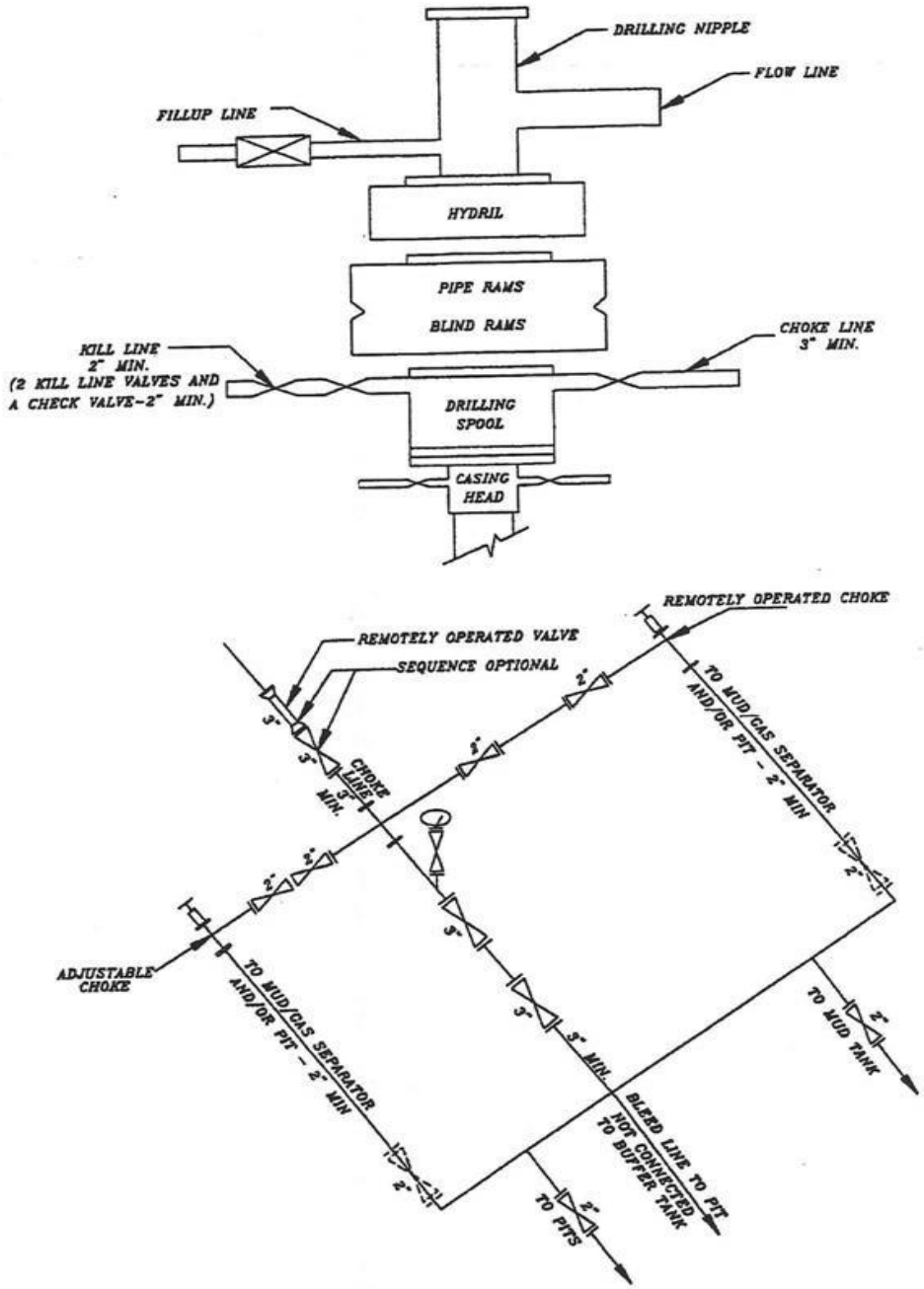
DRILLING ENGINEER: _____ **DATE:** _____

Nick Spence / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

EXHIBIT A
NBU 922-36B4BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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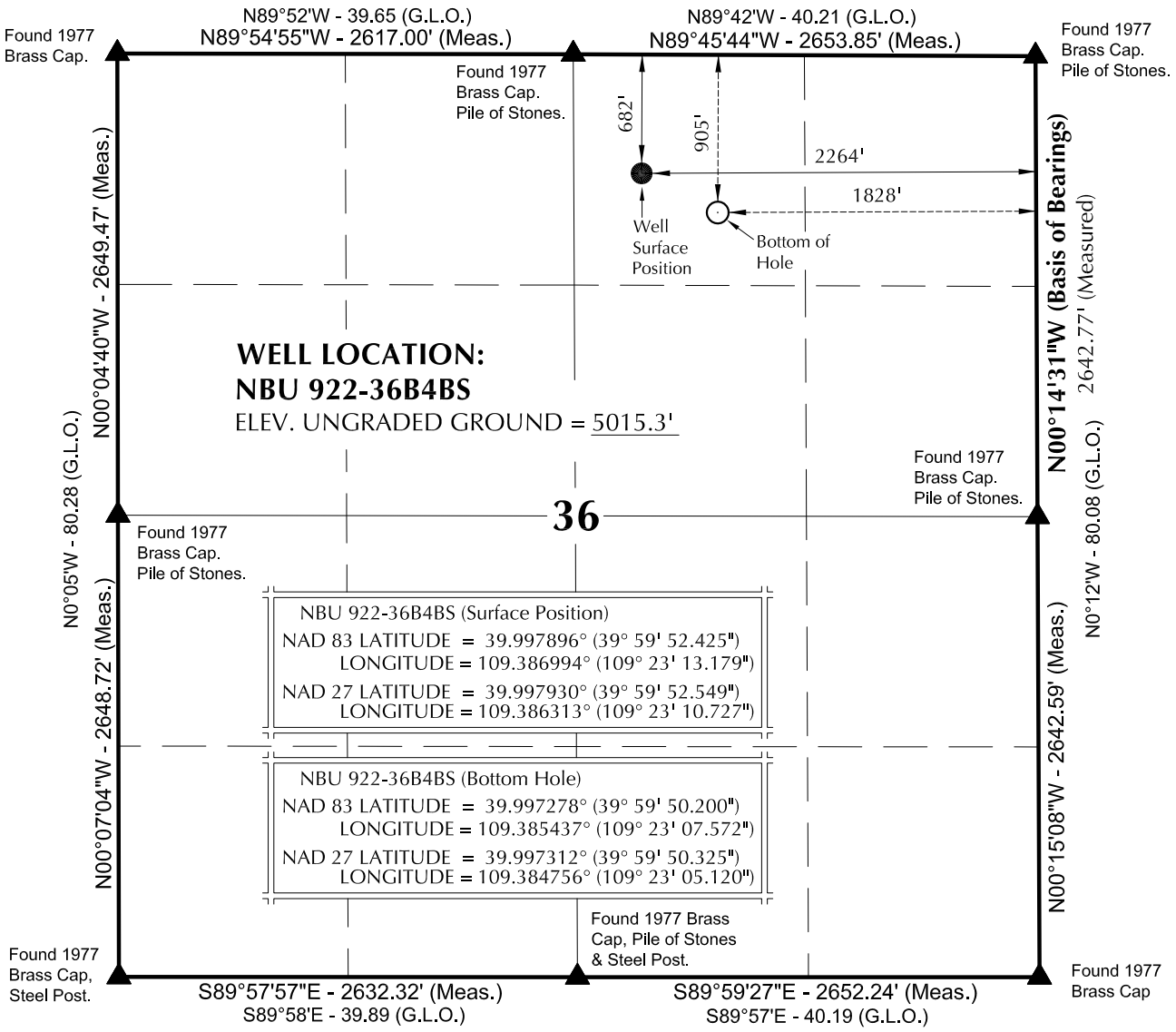
API Well Number: 43047516110000

T9S, R22E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears S62°45'42"E 491.14' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

N

1000' 500' 0' 1000'

SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR No.6028691 JOHN R SLAUGH STATE OF UTAH

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 922-36B

NBU 922-36B4BS
WELL PLAT
905' FNL, 1828' FEL (Bottom Hole)
NW ¼ NE ¼ OF SECTION 36, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 09-02-10	SURVEYED BY: M.S.B.	SHEET NO: 1
DATE DRAWN: 11-16-10	DRAWN BY: E.M.S.	1 OF 16
SCALE: 1" = 1000'	Date Last Revised:	

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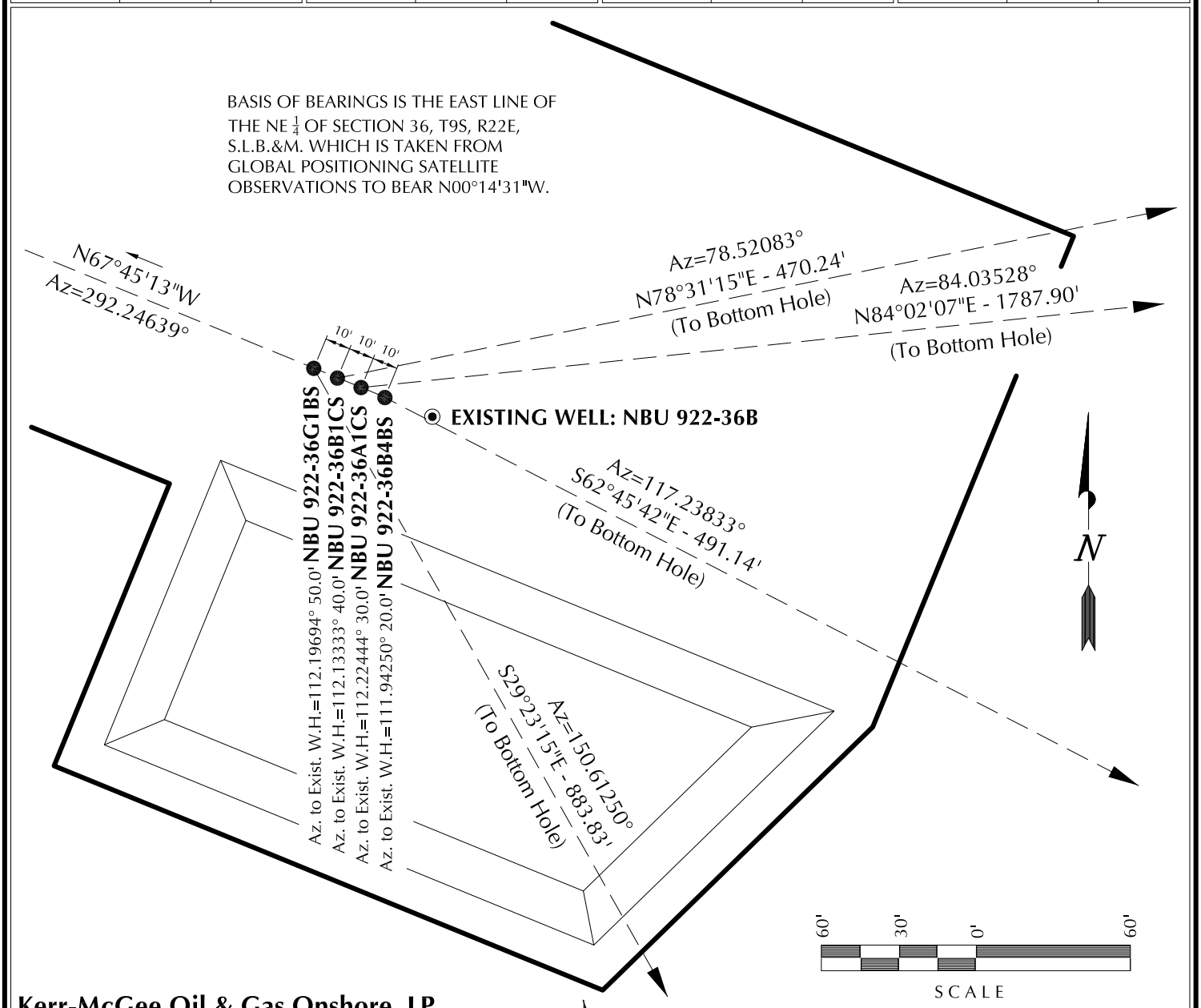
WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 922-36B4BS	39°59'52.425" 39.997896°	109°23'13.179" 109.386994°	39°59'52.549" 39.997930°	109°23'10.727" 109.386313°	682' FNL 2264' FEL	39°59'50.200" 39.997278°	109°23'07.572" 109.385437°	39°59'50.325" 39.997312°	109°23'05.120" 109.384756°	905' FNL 1828' FEL
NBU 922-36A1CS	39°59'52.464" 39.997907°	109°23'13.298" 109.387027°	39°59'52.588" 39.997941°	109°23'10.846" 109.386346°	678' FNL 2273' FEL	39°59'54.284" 39.998412°	109°22'50.453" 109.380681°	39°59'54.408" 39.998447°	109°22'48.002" 109.380001°	485' FNL 494' FEL
NBU 922-36B1CS	39°59'52.500" 39.997917°	109°23'13.417" 109.387060°	39°59'52.625" 39.997951°	109°23'10.965" 109.386379°	674' FNL 2282' FEL	39°59'53.421" 39.998173°	109°23'07.496" 109.385415°	39°59'53.545" 39.998207°	109°23'05.044" 109.384735°	579' FNL 1821' FEL
NBU 922-36G1BS	39°59'52.538" 39.997927°	109°23'13.535" 109.387093°	39°59'52.662" 39.997962°	109°23'11.084" 109.386412°	671' FNL 2291' FEL	39°59'44.926" 39.995813°	109°23'07.973" 109.385548°	39°59'45.050" 39.995847°	109°23'05.521" 109.384867°	1439' FNL 1861' FEL
NBU 922-36B	39°59'52.351" 39.997875°	109°23'12.941" 109.386928°	39°59'52.475" 39.997910°	109°23'10.489" 109.386247°	689' FNL 2245' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-36B4BS	-224.8'	436.7'	NBU 922-36A1CS	185.8'	1,778.2'	NBU 922-36B1CS	93.6'	460.8'	NBU 922-36G1BS	-770.1'	433.7'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-36B

WELL PAD INTERFERENCE PLAT

WELLS - NBU 922-36B4BS, NBU 922-36A1CS, NBU 922-36B1CS & NBU 922-36G1BS LOCATED IN SECTION 36, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 09-02-10	SURVEYED BY: M.S.B.	SHEET NO: 5
DATE DRAWN: 11-16-10	DRAWN BY: E.M.S.	5 OF 16
SCALE: 1" = 60'	Date Last Revised: 04-13-11 M.W.W.	

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PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

16" GAS LINE
6" (MAX.) LIQUID LINE

RESERVE PIT & EXCESS CUT STOCKPILE

TOPSOIL STOCKPILE

CONSTRUCT DIVERSION DITCH (AS NEEDED)

EXISTING SPOILS PILE

6" GAS LINE
6" (MAX.)
LIQUID LINE

EXISTING METER/ SEPARATOR

EXISTING TANK AND BERM

ANCHOR

EXISTING METHANOL TANK

PIPERACKS

PIPETUBS

NBU 922-36G1BS
NBU 922-36B1CS
NBU 922-36A1CS
NBU 922-36B4BS

EXISTING WELL: NBU 922-36B

RECLAIMED PIT

RESERVE PIT
12' DEPTH
SLOPE 1.5:1

S29°23'15"E - 883.83' (TO BOTTOM HOLE)

N78°31'15"E - 470.24' (TO BOTTOM HOLE)

N84°02'07"E - 1787.90' (TO BOTTOM HOLE)

S62°45'42"E - 491.14' (TO BOTTOM HOLE)

16" GAS LINE
6" (MAX.)
LIQUID LINE

EXISTING WELL PAD

CUT FILL

MOVE EXISTING SPOILS PILE TO PROPOSED LOCATION

EXISTING ACCESS ROAD

WELL PAD - NBU 922-36B DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5015.2'
FINISHED GRADE ELEVATION = 5014.8'
CUT SLOPES = 1:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.34 ACRES
TOTAL DAMAGE AREA = 5.99 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 11,616 C.Y.
TOTAL FILL FOR WELL PAD = 4,227 C.Y.
TOPSOIL @ 6" DEPTH = 1,575 C.Y.
EXCESS MATERIAL = 7,389 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 9,740 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 37,290 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

WELL PAD - NBU 922-36B

WELL PAD - LOCATION LAYOUT
NBU 922-36B4BS, NBU 922-36A1CS,
NBU 922-36B1CS & NBU 922-36G1BS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

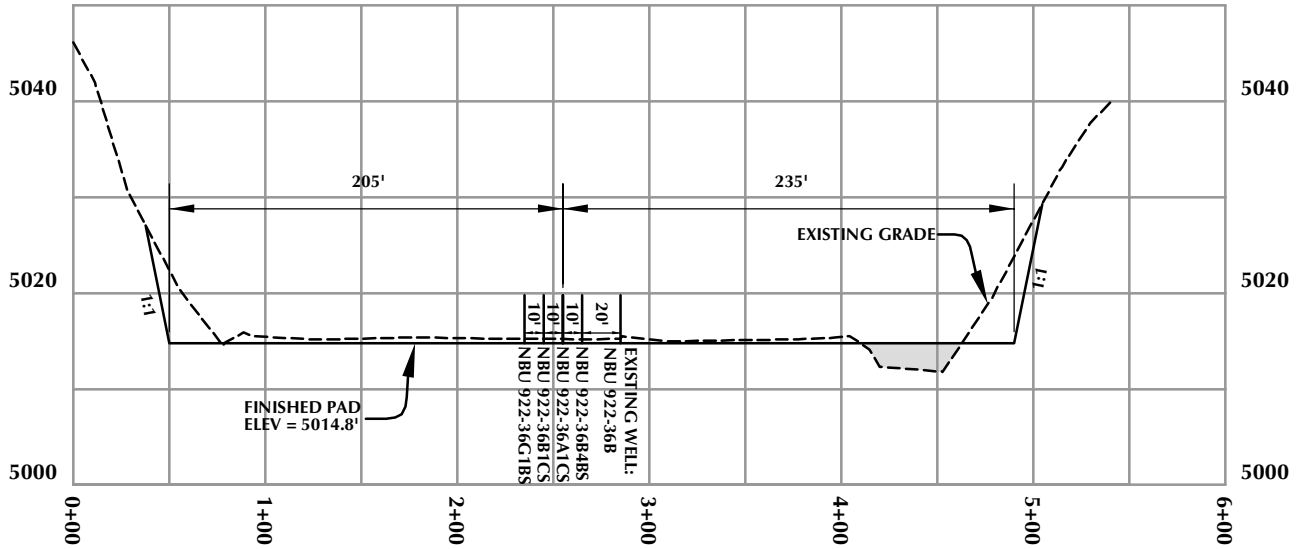
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

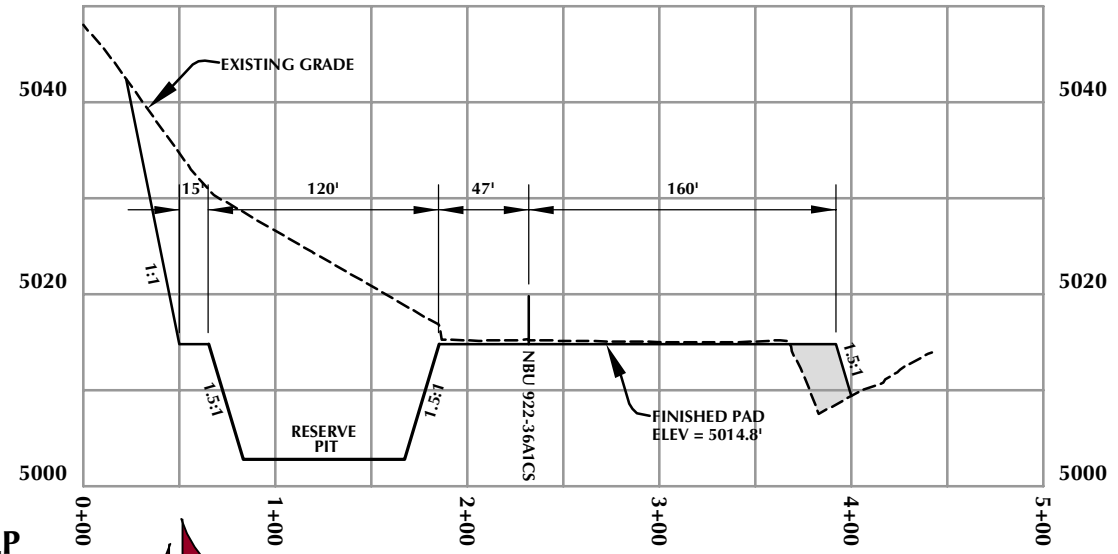
SCALE: 1"=60' | DATE: 12/3/10 | SHEET NO: 6 6 OF 16
REVISED: JID 4/13/11

K:\ANADARKO\2010\2010_48_NBU_FOCUS_SEC_36-922\DWGS\NBU 922-36B\NBU_922-36B_PAD_20101102.dwg

RECEIVED: Jun. 27, 2011



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-36B

WELL PAD - CROSS SECTIONS
NBU 922-36B4BS, NBU 922-36A1CS,
NBU 922-36B1CS & NBU 922-36G1BS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

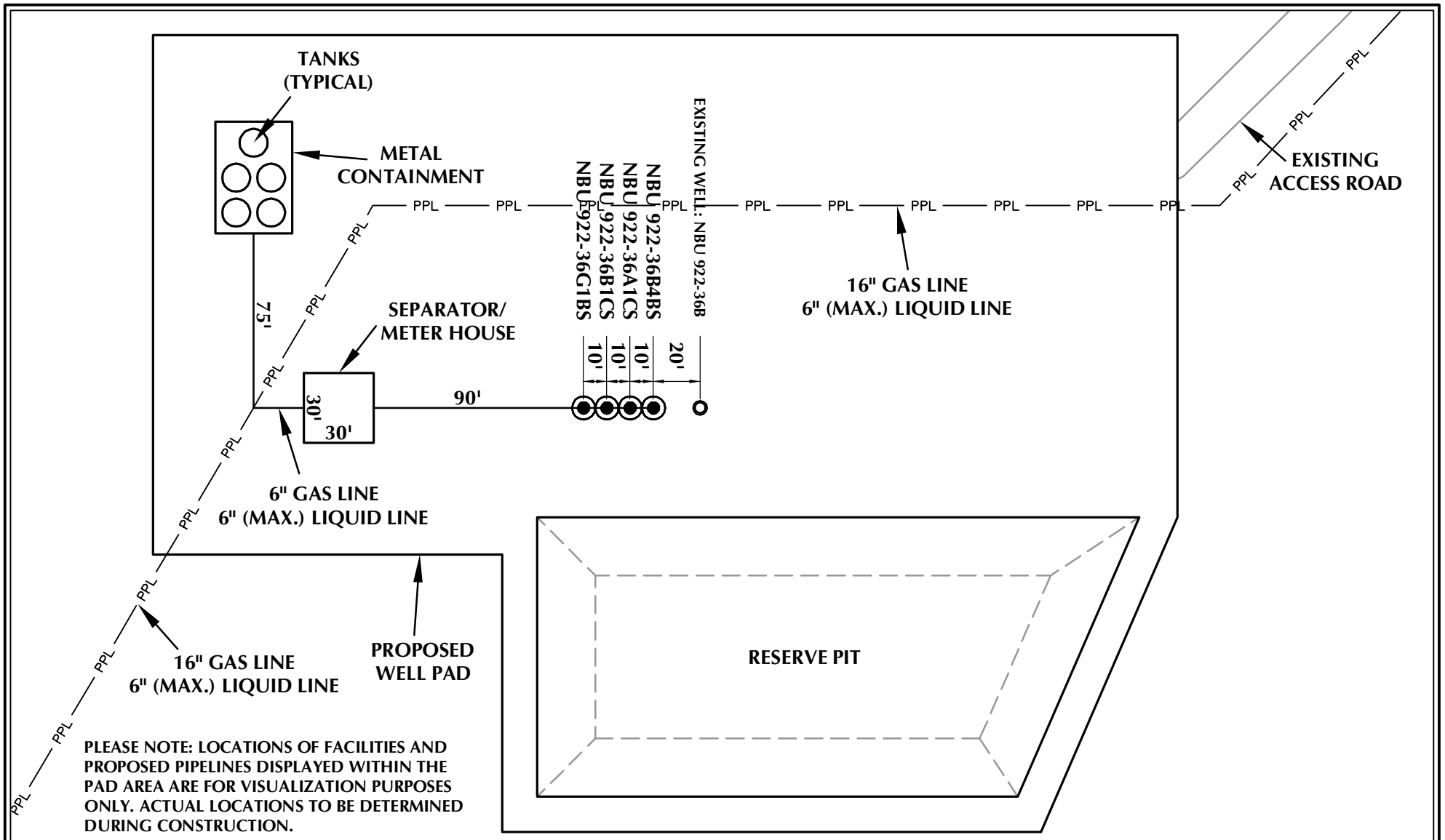
HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=100' | Date: 12/3/10 | SHEET NO: 7 | 7 OF 16
REVISED:

K:\ANADARKO\2010_48_NBU_FOCUS_SEC_36-922\DWGS\NBU 922-36B\NBU_922-36B_PAD_20101102.dwg, 11/30/2010 9:26:19 AM, jake

RECEIVED: Jun. 27, 2011



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-36B

WELL PAD - FACILITIES DIAGRAM
NBU 922-36B4BS, NBU 922-36A1CS,
NBU 922-36B1CS & NBU 922-36G1BS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60'	Date: 12/3/10	SHEET NO:
REVISED: JFE 1/24/11		8 OF 16

K:\ANADARKO\2010_-48_NBU_FOCUS_SEC_36-922\DWGS\NBU_922-36B_PAD_20101102.dwg, 1/25/2011 9:04:33 AM, jake

RECEIVED: Jun. 27, 2011

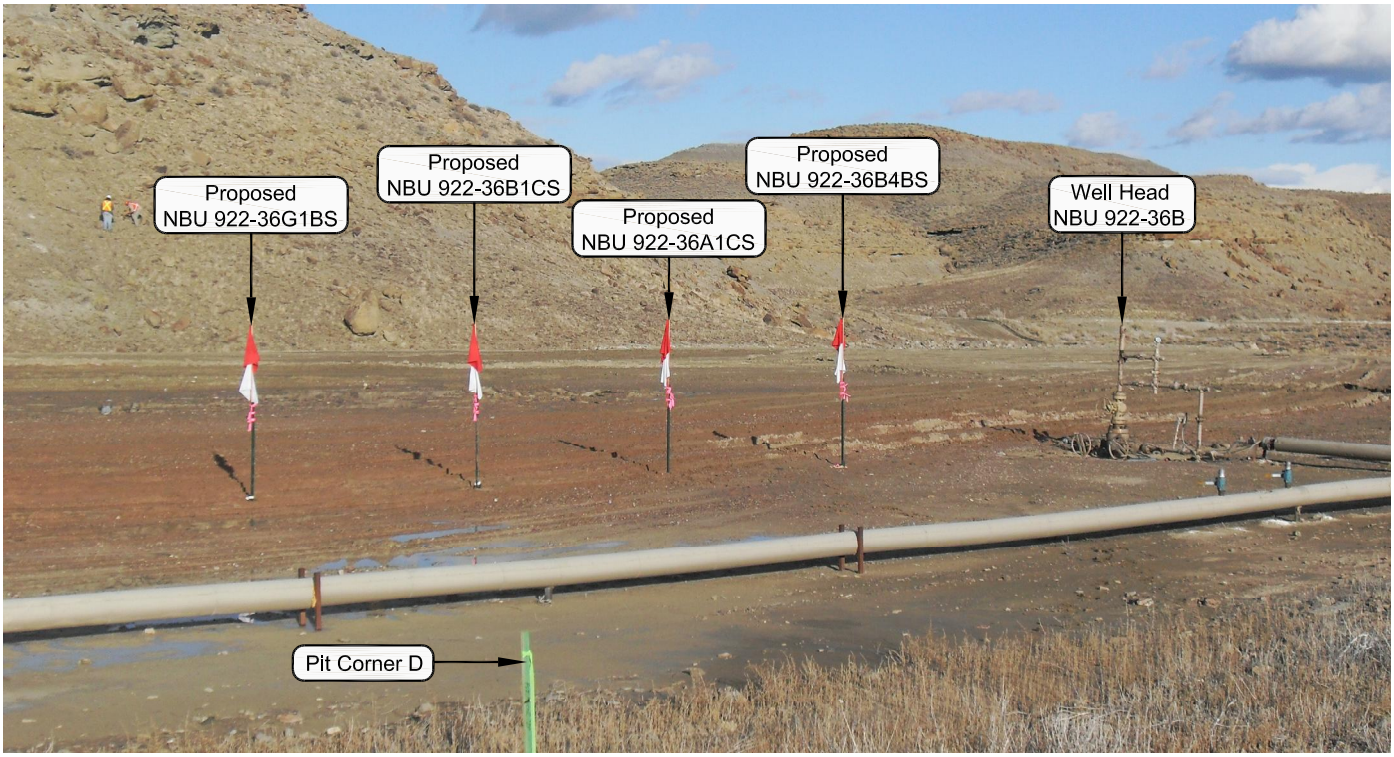


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE CAMERA ANGLE: NORTHEASTERLY

PHOTO VIEW: FROM EXISTING ACCESS ROAD CAMERA ANGLE: SOUTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-36B

LOCATION PHOTOS
NBU 922-36B4BS, NBU 922-36A1CS, NBU 922-36B1CS & NBU 922-36G1BS
LOCATED IN SECTION 36, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

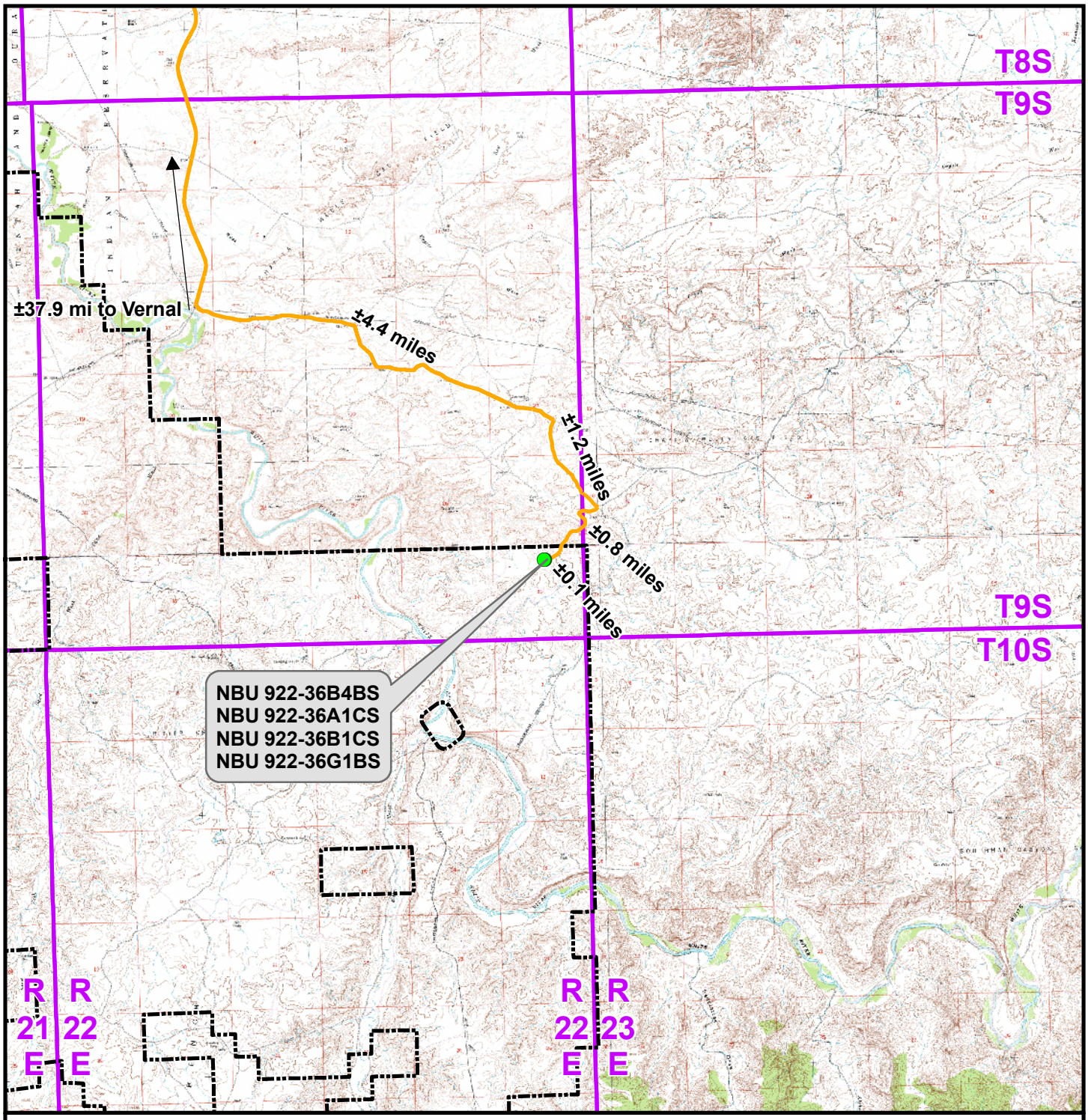
609
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 09-02-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 9
DATE DRAWN: 11-16-10	DRAWN BY: E.M.S.	
Date Last Revised:		9 OF 16

RECEIVED: Jun. 27, 2011

API Well Number: 43047516110000



Legend

Distance From Well Pad - NBU 922-36B To Unit Boundary: ±671ft

Proposed Well Location

Natural Buttes Unit Boundary

Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36B

TOPO A
NBU 922-36B4BS, NBU 922-36A1CS, NBU 922-36B1CS & NBU 922-36G1BS
LOCATED IN SECTION 36, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

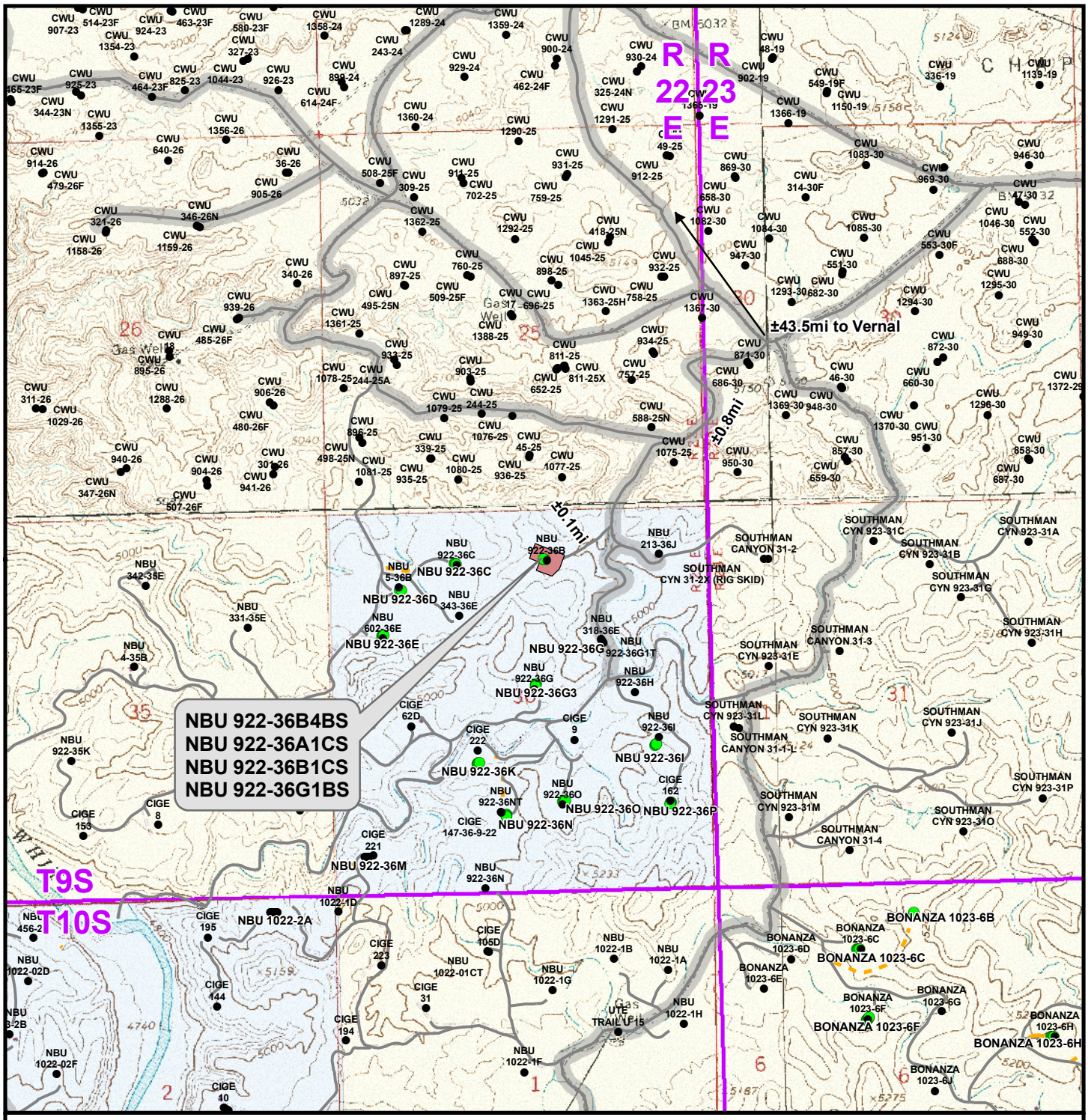
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1:100,000	NAD83 USP Central	Sheet No: 10 of 16	
Drawn: TL	Date: 3 Dec 2010		
Revised:	Date:		

RECEIVED: Jun. 27, 2011

API Well Number: 43047516110000



Legend

Total Proposed Road Length: ±0ft

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36B

TOPO B
NBU 922-36B4BS, NBU 922-36A1CS, NBU 922-36B1CS & NBU 922-36G1BS
LOCATED IN SECTION 36, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

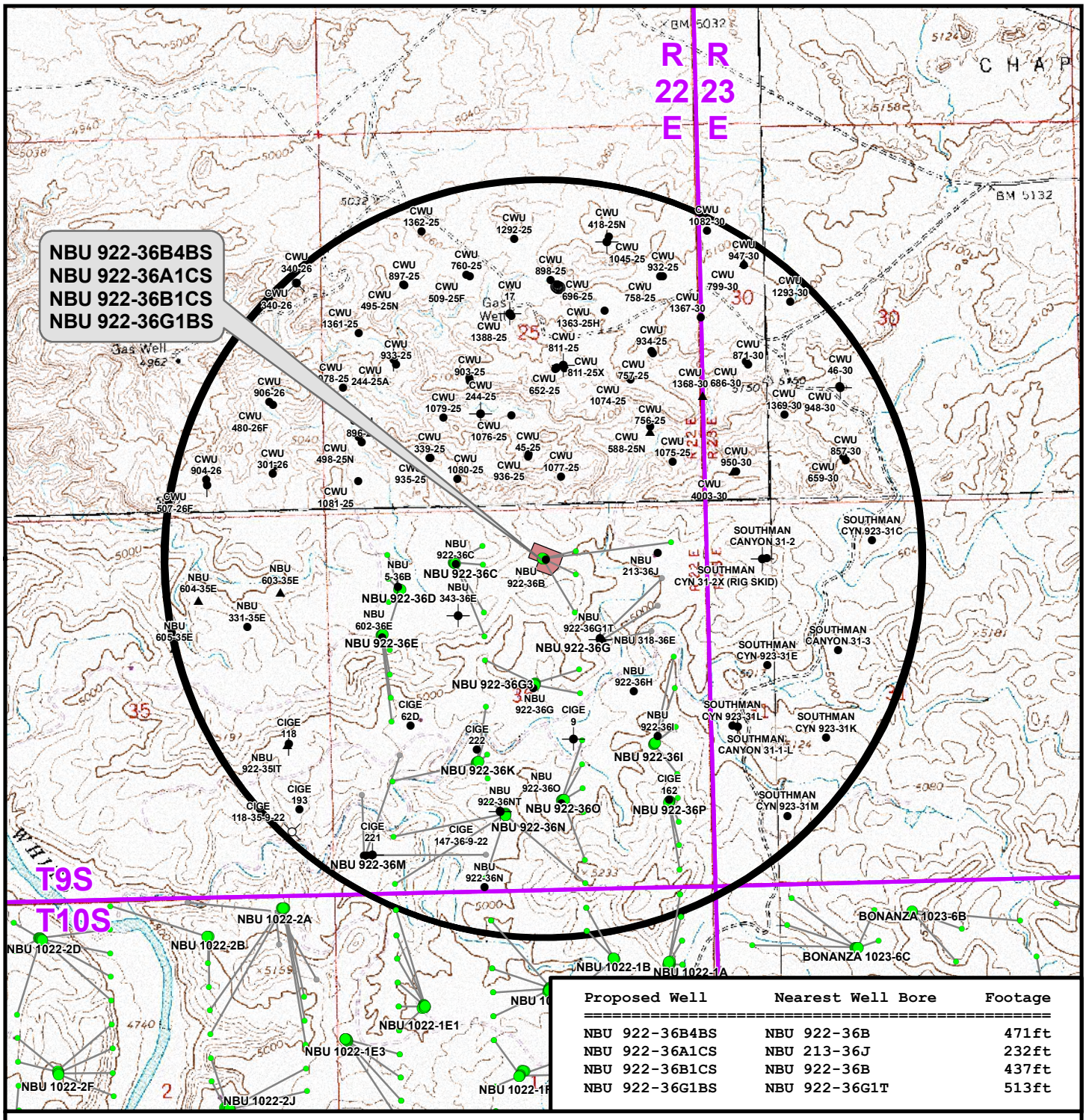
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:	
Drawn: TL	Date: 3 Dec 2010	11	11 of 16
Revised:	Date:		

RECEIVED: Jun. 27, 2011

API Well Number: 43047516110000



Proposed Well	Nearest Well Bore	Footage
NBU 922-36B4BS	NBU 922-36B	471ft
NBU 922-36A1CS	NBU 213-36J	232ft
NBU 922-36B1CS	NBU 922-36B	437ft
NBU 922-36G1BS	NBU 922-36G1T	513ft

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

Legend

- Well - Proposed
- Well Path
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Pad
- Well - 1 Mile Radius

- Producing
- Active
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36B

TOPO C
NBU 922-36B4BS, NBU 922-36A1CS, NBU 922-36B1CS & NBU 922-36G1BS
LOCATED IN SECTION 36, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

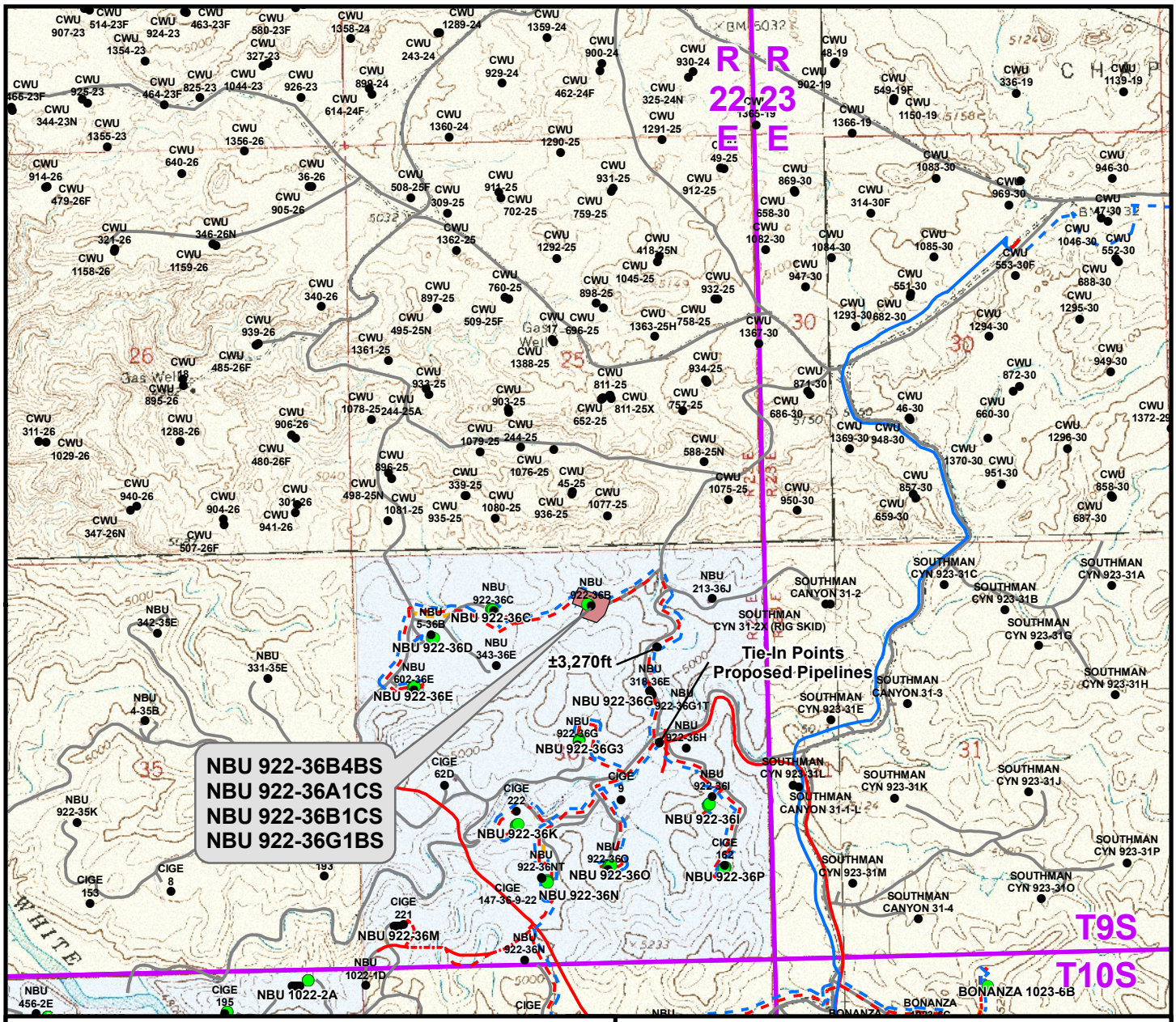
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 12 of 16
Drawn: TL	Date: 3 Dec 2010	
Revised: CPS	Date: 13 Apr 2011	

RECEIVED: Jun. 27, 2011

API Well Number: 43047516110000



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to 36C Intersection)	±40ft
Proposed 6" (Max.) (36C Intersection to Edge of Pad)	±450ft
Proposed 6" (Max.) (Edge of Pad to 36I Intersection)	±3,270ft
TOTAL PROPOSED LIQUID PIPELINE =	±3,760ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to 36C Intersection)	±40ft
Proposed 16" (36C Intersection to Edge of Pad)	±450ft
Proposed 16" (Edge of Pad to 36I Intersection)	±3,270ft
TOTAL PROPOSED GAS PIPELINE =	±3,760ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36B

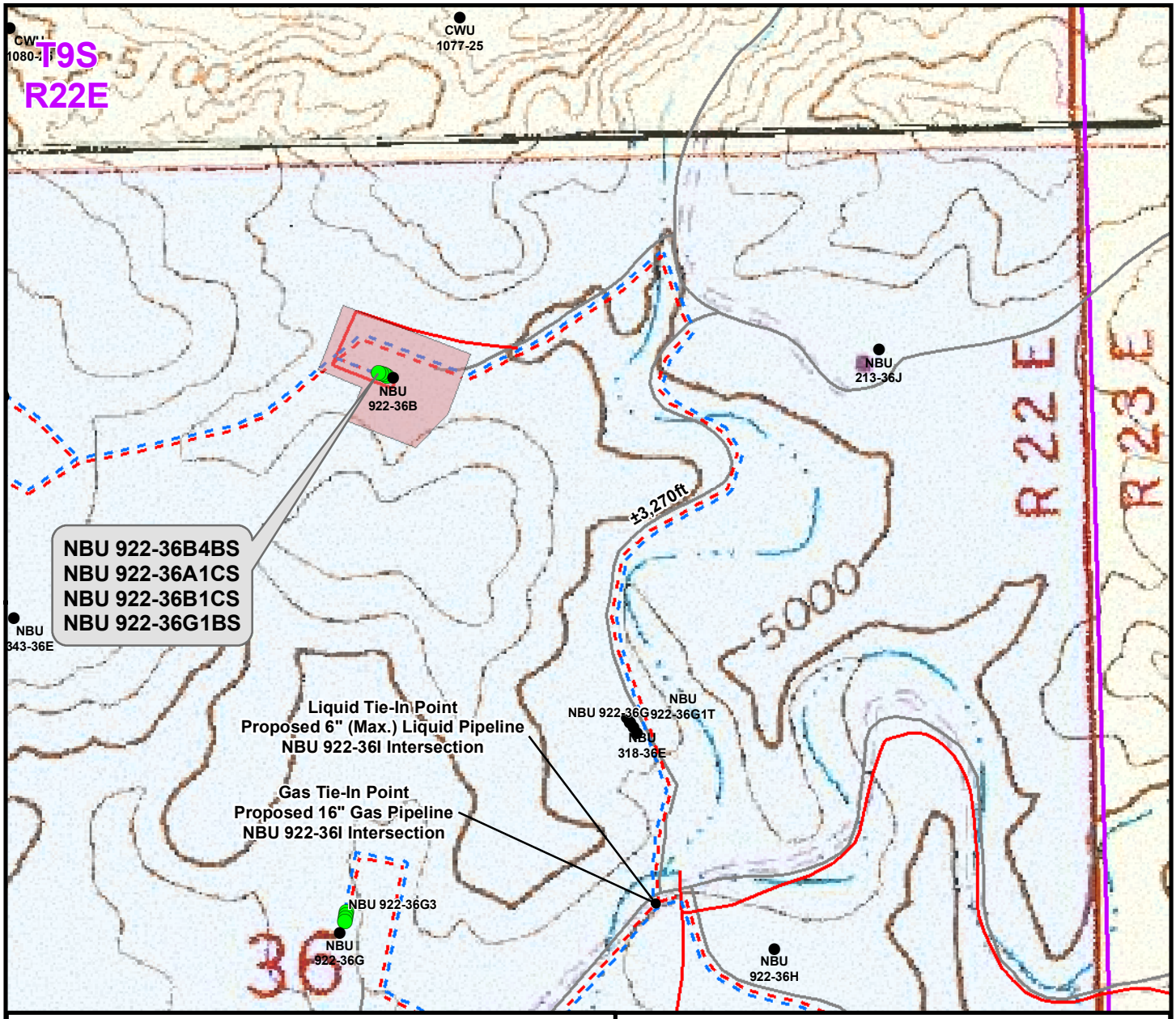
TOPO D
NBU 922-36B4BS, NBU 922-36A1CS, NBU 922-36B1CS & NBU 922-36G1BS
LOCATED IN SECTION 36, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 13 of 16
Drawn: TL	Date: 3 Dec 2010	
Revised: TL	Date: 24 Jan 2011	

RECEIVED: Jun. 27, 2011



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to 36C Intersection)	±40ft
Proposed 6" (Max.) (36C Intersection to Edge of Pad)	±450ft
Proposed 6" (Max.) (Edge of Pad to 36I Intersection)	±3,270ft
TOTAL PROPOSED LIQUID PIPELINE =	±3,760ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to 36C Intersection)	±40ft
Proposed 16" (36C Intersection to Edge of Pad)	±450ft
Proposed 16" (Edge of Pad to 36I Intersection)	±3,270ft
TOTAL PROPOSED GAS PIPELINE =	±3,760ft

Legend

Well - Proposed
Well - Existing
Well Pad
Gas Pipeline - Proposed
Gas Pipeline - To Be Upgraded
Gas Pipeline - Existing
Liquid Pipeline - Proposed
Liquid Pipeline - Existing
Road - Proposed
Road - Existing
Bureau of Land Management
Indian Reservation
State
Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36B

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 922-36B4BS, NBU 922-36A1CS,
NBU 922-36B1CS & NBU 922-36G1BS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

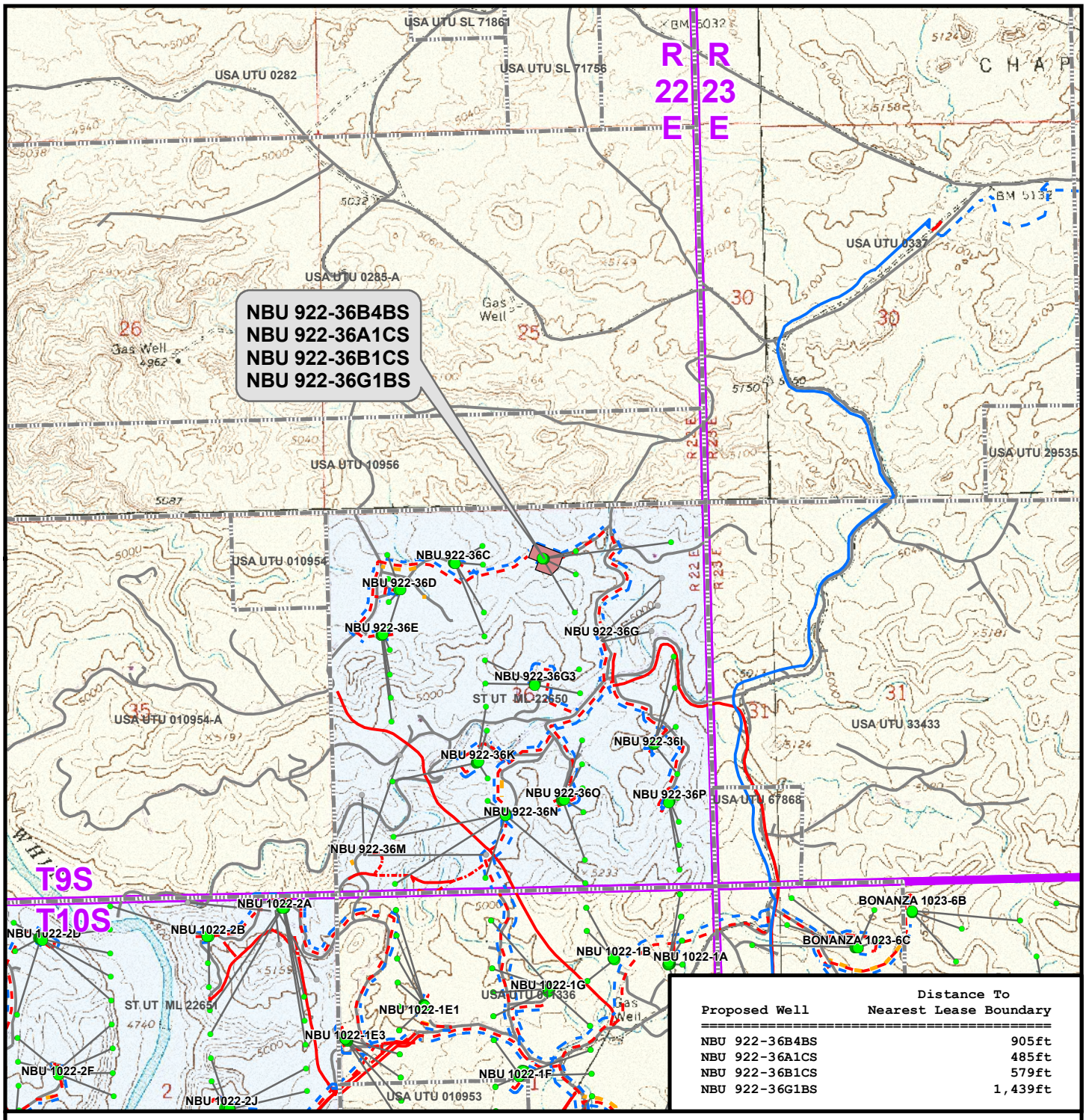
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 500ft	NAD83 USP Central	Sheet No: 14 of 16
Drawn: TL	Date: 3 Dec 2010	
Revised: TL	Date: 24 Jan 2011	

RECEIVED: Jun. 27, 2011

API Well Number: 43047516110000



Proposed Well	Distance To Nearest Lease Boundary
NBU 922-36B4BS	905ft
NBU 922-36A1CS	485ft
NBU 922-36B1CS	579ft
NBU 922-36G1BS	1,439ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36B

TOPO E
NBU 922-36B4BS, NBU 922-36A1CS, NBU 922-36B1CS & NBU 922-36G1BS
LOCATED IN SECTION 36, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

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Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 15	15 of 16
Drawn: TL	Date: 3 Dec 2010		
Revised: CPS	Date: 13 Apr 2011		

RECEIVED: Jun. 27, 2011

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-36B
WELLS – NBU 922-36B4BS, NBU 922-36A1CS,
NBU 922-36B1CS & NBU 922-36G1BS
Section 36, T9S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southerly, then southeasterly direction along the Seven Sisters Road approximately 1.2 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly, then southerly direction along the Class D County Road approximately 0.8 miles to an access road to the southwest. Exit right and proceed in a southwesterly direction along the access road approximately 0.1 miles to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 44.4 miles in a southerly direction.

RECEIVED: Jun. 27, 2011

API Well Number: 43047516110000

Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT UTM12
Site: NBU 922-36B PAD
Well: NBU 922-36B4BS
Wellbore: OH
Design: PLAN #1 2-10-11 RHS

Anadarko Petroleum Corporation

WELL DETAILS: NBU 922-36B4BS

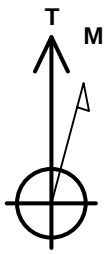
GL 5015' & KB 4'
@ 5019.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14529381.99	2092367.27	39° 59' 52.548 N	109° 23' 10.727 W

DESIGN TARGET DETAILS

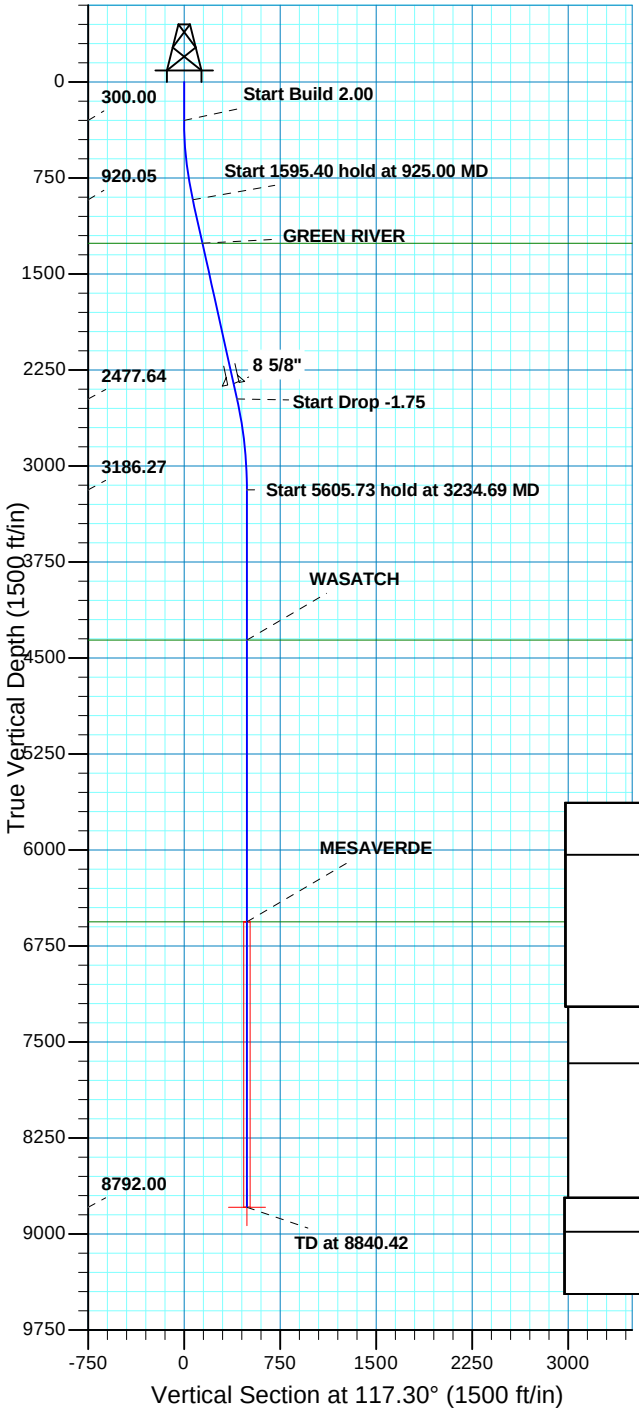
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8792.00	-225.08	436.17	14529164.84	2092807.44	39° 59' 50.323 N	109° 23' 5.122 W	Circle (Radius: 25.00)

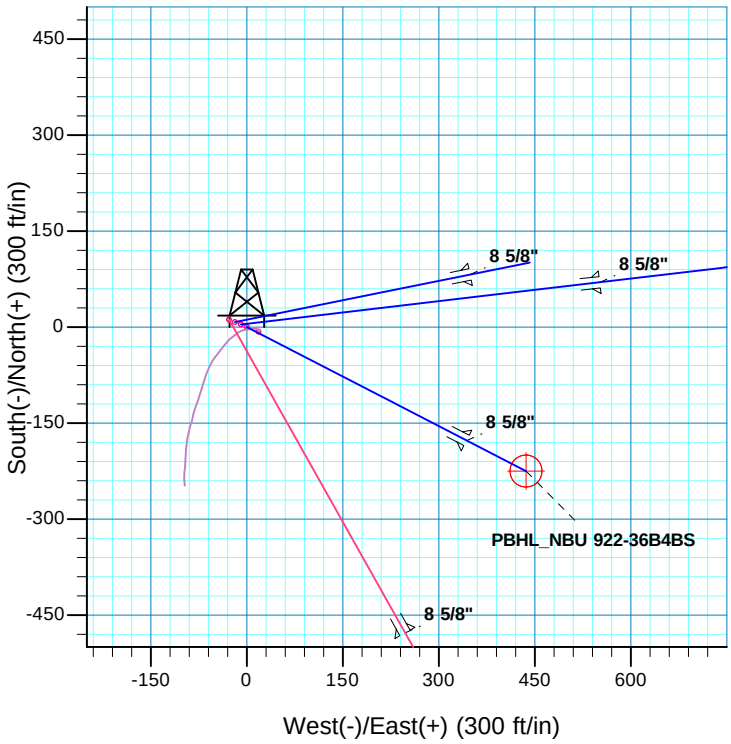
- plan hits target center



Azimuths to True North
Magnetic North: 11.07°

Magnetic Field
Strength: 52377.5snT
Dip Angle: 65.90°
Date: 02/10/2011
Model: IGRF2010





SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
925.00	12.50	117.30	920.05	-31.14	60.35	2.00	117.30	67.91	
2520.40	12.50	117.30	2477.64	-189.49	367.20	0.00	0.00	413.22	
3234.69	0.00	0.00	3186.27	-225.08	436.17	1.75	180.00	490.82	
8840.42	0.00	0.00	8792.00	-225.08	436.17	0.00	0.00	490.82	PBHL_NBU 922-36B4BS

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 36 T9S R22E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1260.00	1273.20	GREEN RIVER
4361.00	4409.42	WASATCH
6561.00	6609.42	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2358.00	2397.86	8 5/8"	8.625

RECEIVED: Jun. 27, 2011

Plan: PLAN #1 2-10-11 RHS (NBU 922-36B4BS/OH)
Created By: RobertScott Date: 10:40, February 10 2011

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 922-36B PAD
NBU 922-36B4BS

OH

Plan: PLAN #1 2-10-11 RHS

Standard Planning Report

10 February, 2011

Anadarko Petroleum Corporation

RECEIVED: Jun. 27, 2011

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Site:	NBU 922-36B PAD	**North Reference:**	True
Well:	NBU 922-36B4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Project Uintah County, UT UTM12

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 922-36B PAD, SECTION 36 T9S R22E

Site Position:		**Northing:**	14,529,382.00 usft	**Latitude:**	39° 59' 52.548 N
From:	Lat/Long	**Easting:**	2,092,367.27 usft	**Longitude:**	109° 23' 10.727 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.04 °

Well NBU 922-36B4BS, 682 FNL 2264 FEL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,529,382.00 usft	**Latitude:**	39° 59' 52.548 N
	+E/-W	0.00 ft	**Easting:**	2,092,367.27 usft	**Longitude:**	109° 23' 10.727 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	5,015.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/2011	11.07	65.90	52,377

Design PLAN #1 2-10-11 RHS

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	117.30

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
925.00	12.50	117.30	920.05	-31.14	60.35	2.00	2.00	0.00	117.30	
2,520.40	12.50	117.30	2,477.64	-189.49	367.20	0.00	0.00	0.00	0.00	
3,234.69	0.00	0.00	3,186.27	-225.08	436.17	1.75	-1.75	0.00	180.00	
8,840.42	0.00	0.00	8,792.00	-225.08	436.17	0.00	0.00	0.00	0.00	PBHL_NBU 922-36B4

RECEIVED: Jun. 27, 2011

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Site:	NBU 922-36B PAD	**North Reference:**	True
Well:	NBU 922-36B4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	117.30	399.98	-0.80	1.55	1.75	2.00	2.00	0.00
500.00	4.00	117.30	499.84	-3.20	6.20	6.98	2.00	2.00	0.00
600.00	6.00	117.30	599.45	-7.20	13.95	15.69	2.00	2.00	0.00
700.00	8.00	117.30	698.70	-12.79	24.78	27.88	2.00	2.00	0.00
800.00	10.00	117.30	797.47	-19.96	38.68	43.52	2.00	2.00	0.00
900.00	12.00	117.30	895.62	-28.71	55.63	62.60	2.00	2.00	0.00
925.00	12.50	117.30	920.05	-31.14	60.35	67.91	2.00	2.00	0.00
Start 1595.40 hold at 925.00 MD									
1,000.00	12.50	117.30	993.28	-38.59	74.77	84.14	0.00	0.00	0.00
1,100.00	12.50	117.30	1,090.91	-48.51	94.00	105.78	0.00	0.00	0.00
1,200.00	12.50	117.30	1,188.54	-58.44	113.24	127.43	0.00	0.00	0.00
1,273.20	12.50	117.30	1,260.00	-65.70	127.32	143.27	0.00	0.00	0.00
GREEN RIVER									
1,300.00	12.50	117.30	1,286.16	-68.36	132.47	149.07	0.00	0.00	0.00
1,400.00	12.50	117.30	1,383.79	-78.29	151.71	170.72	0.00	0.00	0.00
1,500.00	12.50	117.30	1,481.42	-88.21	170.94	192.36	0.00	0.00	0.00
1,600.00	12.50	117.30	1,579.05	-98.14	190.17	214.00	0.00	0.00	0.00
1,700.00	12.50	117.30	1,676.68	-108.06	209.41	235.65	0.00	0.00	0.00
1,800.00	12.50	117.30	1,774.31	-117.99	228.64	257.29	0.00	0.00	0.00
1,900.00	12.50	117.30	1,871.94	-127.92	247.88	278.94	0.00	0.00	0.00
2,000.00	12.50	117.30	1,969.57	-137.84	267.11	300.58	0.00	0.00	0.00
2,100.00	12.50	117.30	2,067.20	-147.77	286.34	322.22	0.00	0.00	0.00
2,200.00	12.50	117.30	2,164.83	-157.69	305.58	343.87	0.00	0.00	0.00
2,300.00	12.50	117.30	2,262.46	-167.62	324.81	365.51	0.00	0.00	0.00
2,397.86	12.50	117.30	2,358.00	-177.33	343.63	386.69	0.00	0.00	0.00
8 5/8"									
2,400.00	12.50	117.30	2,360.09	-177.54	344.05	387.16	0.00	0.00	0.00
2,500.00	12.50	117.30	2,457.72	-187.47	363.28	408.80	0.00	0.00	0.00
2,520.40	12.50	117.30	2,477.64	-189.49	367.20	413.22	0.00	0.00	0.00
Start Drop -1.75									
2,600.00	11.11	117.30	2,555.55	-196.96	381.67	429.50	1.75	-1.75	0.00
2,700.00	9.36	117.30	2,653.96	-205.11	397.46	447.26	1.75	-1.75	0.00
2,800.00	7.61	117.30	2,752.86	-211.87	410.56	462.01	1.75	-1.75	0.00
2,900.00	5.86	117.30	2,852.17	-217.25	420.98	473.73	1.75	-1.75	0.00
3,000.00	4.11	117.30	2,951.78	-221.23	428.70	482.42	1.75	-1.75	0.00
3,100.00	2.36	117.30	3,051.62	-223.81	433.71	488.05	1.75	-1.75	0.00
3,200.00	0.61	117.30	3,151.58	-225.00	436.01	490.64	1.75	-1.75	0.00
3,234.69	0.00	0.00	3,186.27	-225.08	436.17	490.82	1.75	-1.75	0.00
Start 5605.73 hold at 3234.69 MD									
3,300.00	0.00	0.00	3,251.58	-225.08	436.17	490.82	0.00	0.00	0.00
3,400.00	0.00	0.00	3,351.58	-225.08	436.17	490.82	0.00	0.00	0.00
3,500.00	0.00	0.00	3,451.58	-225.08	436.17	490.82	0.00	0.00	0.00
3,600.00	0.00	0.00	3,551.58	-225.08	436.17	490.82	0.00	0.00	0.00
3,700.00	0.00	0.00	3,651.58	-225.08	436.17	490.82	0.00	0.00	0.00
3,800.00	0.00	0.00	3,751.58	-225.08	436.17	490.82	0.00	0.00	0.00
3,900.00	0.00	0.00	3,851.58	-225.08	436.17	490.82	0.00	0.00	0.00

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Site:	NBU 922-36B PAD	**North Reference:**	True
Well:	NBU 922-36B4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,000.00	0.00	0.00	3,951.58	-225.08	436.17	490.82	0.00	0.00	0.00
4,100.00	0.00	0.00	4,051.58	-225.08	436.17	490.82	0.00	0.00	0.00
4,200.00	0.00	0.00	4,151.58	-225.08	436.17	490.82	0.00	0.00	0.00
4,300.00	0.00	0.00	4,251.58	-225.08	436.17	490.82	0.00	0.00	0.00
4,400.00	0.00	0.00	4,351.58	-225.08	436.17	490.82	0.00	0.00	0.00
4,409.42	0.00	0.00	4,361.00	-225.08	436.17	490.82	0.00	0.00	0.00
WASATCH									
4,500.00	0.00	0.00	4,451.58	-225.08	436.17	490.82	0.00	0.00	0.00
4,600.00	0.00	0.00	4,551.58	-225.08	436.17	490.82	0.00	0.00	0.00
4,700.00	0.00	0.00	4,651.58	-225.08	436.17	490.82	0.00	0.00	0.00
4,800.00	0.00	0.00	4,751.58	-225.08	436.17	490.82	0.00	0.00	0.00
4,900.00	0.00	0.00	4,851.58	-225.08	436.17	490.82	0.00	0.00	0.00
5,000.00	0.00	0.00	4,951.58	-225.08	436.17	490.82	0.00	0.00	0.00
5,100.00	0.00	0.00	5,051.58	-225.08	436.17	490.82	0.00	0.00	0.00
5,200.00	0.00	0.00	5,151.58	-225.08	436.17	490.82	0.00	0.00	0.00
5,300.00	0.00	0.00	5,251.58	-225.08	436.17	490.82	0.00	0.00	0.00
5,400.00	0.00	0.00	5,351.58	-225.08	436.17	490.82	0.00	0.00	0.00
5,500.00	0.00	0.00	5,451.58	-225.08	436.17	490.82	0.00	0.00	0.00
5,600.00	0.00	0.00	5,551.58	-225.08	436.17	490.82	0.00	0.00	0.00
5,700.00	0.00	0.00	5,651.58	-225.08	436.17	490.82	0.00	0.00	0.00
5,800.00	0.00	0.00	5,751.58	-225.08	436.17	490.82	0.00	0.00	0.00
5,900.00	0.00	0.00	5,851.58	-225.08	436.17	490.82	0.00	0.00	0.00
6,000.00	0.00	0.00	5,951.58	-225.08	436.17	490.82	0.00	0.00	0.00
6,100.00	0.00	0.00	6,051.58	-225.08	436.17	490.82	0.00	0.00	0.00
6,200.00	0.00	0.00	6,151.58	-225.08	436.17	490.82	0.00	0.00	0.00
6,300.00	0.00	0.00	6,251.58	-225.08	436.17	490.82	0.00	0.00	0.00
6,400.00	0.00	0.00	6,351.58	-225.08	436.17	490.82	0.00	0.00	0.00
6,500.00	0.00	0.00	6,451.58	-225.08	436.17	490.82	0.00	0.00	0.00
6,600.00	0.00	0.00	6,551.58	-225.08	436.17	490.82	0.00	0.00	0.00
6,609.42	0.00	0.00	6,561.00	-225.08	436.17	490.82	0.00	0.00	0.00
MESAVERDE									
6,700.00	0.00	0.00	6,651.58	-225.08	436.17	490.82	0.00	0.00	0.00
6,800.00	0.00	0.00	6,751.58	-225.08	436.17	490.82	0.00	0.00	0.00
6,900.00	0.00	0.00	6,851.58	-225.08	436.17	490.82	0.00	0.00	0.00
7,000.00	0.00	0.00	6,951.58	-225.08	436.17	490.82	0.00	0.00	0.00
7,100.00	0.00	0.00	7,051.58	-225.08	436.17	490.82	0.00	0.00	0.00
7,200.00	0.00	0.00	7,151.58	-225.08	436.17	490.82	0.00	0.00	0.00
7,300.00	0.00	0.00	7,251.58	-225.08	436.17	490.82	0.00	0.00	0.00
7,400.00	0.00	0.00	7,351.58	-225.08	436.17	490.82	0.00	0.00	0.00
7,500.00	0.00	0.00	7,451.58	-225.08	436.17	490.82	0.00	0.00	0.00
7,600.00	0.00	0.00	7,551.58	-225.08	436.17	490.82	0.00	0.00	0.00
7,700.00	0.00	0.00	7,651.58	-225.08	436.17	490.82	0.00	0.00	0.00
7,800.00	0.00	0.00	7,751.58	-225.08	436.17	490.82	0.00	0.00	0.00
7,900.00	0.00	0.00	7,851.58	-225.08	436.17	490.82	0.00	0.00	0.00
8,000.00	0.00	0.00	7,951.58	-225.08	436.17	490.82	0.00	0.00	0.00
8,100.00	0.00	0.00	8,051.58	-225.08	436.17	490.82	0.00	0.00	0.00
8,200.00	0.00	0.00	8,151.58	-225.08	436.17	490.82	0.00	0.00	0.00
8,300.00	0.00	0.00	8,251.58	-225.08	436.17	490.82	0.00	0.00	0.00
8,400.00	0.00	0.00	8,351.58	-225.08	436.17	490.82	0.00	0.00	0.00
8,500.00	0.00	0.00	8,451.58	-225.08	436.17	490.82	0.00	0.00	0.00
8,600.00	0.00	0.00	8,551.58	-225.08	436.17	490.82	0.00	0.00	0.00
8,700.00	0.00	0.00	8,651.58	-225.08	436.17	490.82	0.00	0.00	0.00

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Site:	NBU 922-36B PAD	**North Reference:**	True
Well:	NBU 922-36B4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,751.58	-225.08	436.17	490.82	0.00	0.00	0.00
8,840.42	0.00	0.00	8,792.00	-225.08	436.17	490.82	0.00	0.00	0.00
PBHL_NBU 922-36B4BS									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-36B4BS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,792.00	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,397.86	2,358.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,273.20	1,260.00	GREEN RIVER			
4,409.42	4,361.00	WASATCH			
6,609.42	6,561.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
925.00	920.05	-31.14	60.35	Start 1595.40 hold at 925.00 MD
2,520.40	2,477.64	-189.49	367.20	Start Drop -1.75
3,234.69	3,186.27	-225.08	436.17	Start 5605.73 hold at 3234.69 MD
8,840.42	8,792.00	-225.08	436.17	TD at 8840.42

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 922-36B PAD
NBU 922-36B4BS

OH

Plan: PLAN #1 2-10-11 RHS

Standard Planning Report - Geographic

10 February, 2011

Anadarko
Petroleum Corporation

RECEIVED: Jun. 27, 2011

Scientific Drilling
Rocky Mountain Operations

SDI

Planning Report - Geographic

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Site:	NBU 922-36B PAD	**North Reference:**	True
Well:	NBU 922-36B4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Project Uintah County, UT UTM12

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 922-36B PAD, SECTION 36 T9S R22E

Site Position:		**Northing:**	14,529,382.00 usft	**Latitude:**	39° 59' 52.548 N
From:	Lat/Long	**Easting:**	2,092,367.27 usft	**Longitude:**	109° 23' 10.727 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.04 °

Well NBU 922-36B4BS, 682 FNL 2264 FEL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,529,382.00 usft	**Latitude:**	39° 59' 52.548 N
	+E/-W	0.00 ft	**Easting:**	2,092,367.27 usft	**Longitude:**	109° 23' 10.727 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	5,015.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/2011	11.07	65.90	52,377

Design PLAN #1 2-10-11 RHS

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	117.30

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
925.00	12.50	117.30	920.05	-31.14	60.35	2.00	2.00	0.00	117.30	
2,520.40	12.50	117.30	2,477.64	-189.49	367.20	0.00	0.00	0.00	0.00	
3,234.69	0.00	0.00	3,186.27	-225.08	436.17	1.75	-1.75	0.00	180.00	
8,840.42	0.00	0.00	8,792.00	-225.08	436.17	0.00	0.00	0.00	0.00	PBHL_NBU 922-36B4

RECEIVED: Jun. 27, 2011

Scientific Drilling
Rocky Mountain Operations

SDI

Planning Report - Geographic

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Site:	NBU 922-36B PAD	**North Reference:**	True
Well:	NBU 922-36B4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,529,382.00	2,092,367.27	39° 59' 52.548 N	109° 23' 10.727 W
100.00	0.00	0.00	100.00	0.00	0.00	14,529,382.00	2,092,367.27	39° 59' 52.548 N	109° 23' 10.727 W
200.00	0.00	0.00	200.00	0.00	0.00	14,529,382.00	2,092,367.27	39° 59' 52.548 N	109° 23' 10.727 W
300.00	0.00	0.00	300.00	0.00	0.00	14,529,382.00	2,092,367.27	39° 59' 52.548 N	109° 23' 10.727 W
Start Build 2.00									
400.00	2.00	117.30	399.98	-0.80	1.55	14,529,381.23	2,092,368.83	39° 59' 52.540 N	109° 23' 10.707 W
500.00	4.00	117.30	499.84	-3.20	6.20	14,529,378.91	2,092,373.52	39° 59' 52.516 N	109° 23' 10.647 W
600.00	6.00	117.30	599.45	-7.20	13.95	14,529,375.05	2,092,381.34	39° 59' 52.477 N	109° 23' 10.548 W
700.00	8.00	117.30	698.70	-12.79	24.78	14,529,369.66	2,092,392.27	39° 59' 52.422 N	109° 23' 10.408 W
800.00	10.00	117.30	797.47	-19.96	38.68	14,529,362.74	2,092,406.30	39° 59' 52.351 N	109° 23' 10.230 W
900.00	12.00	117.30	895.62	-28.71	55.63	14,529,354.30	2,092,423.41	39° 59' 52.264 N	109° 23' 10.012 W
925.00	12.50	117.30	920.05	-31.14	60.35	14,529,351.95	2,092,428.17	39° 59' 52.240 N	109° 23' 9.951 W
Start 1595.40 hold at 925.00 MD									
1,000.00	12.50	117.30	993.28	-38.59	74.77	14,529,344.77	2,092,442.72	39° 59' 52.167 N	109° 23' 9.766 W
1,100.00	12.50	117.30	1,090.91	-48.51	94.00	14,529,335.20	2,092,462.13	39° 59' 52.069 N	109° 23' 9.519 W
1,200.00	12.50	117.30	1,188.54	-58.44	113.24	14,529,325.62	2,092,481.54	39° 59' 51.970 N	109° 23' 9.272 W
1,273.20	12.50	117.30	1,260.00	-65.70	127.32	14,529,318.61	2,092,495.75	39° 59' 51.899 N	109° 23' 9.091 W
GREEN RIVER									
1,300.00	12.50	117.30	1,286.16	-68.36	132.47	14,529,316.04	2,092,500.95	39° 59' 51.872 N	109° 23' 9.024 W
1,400.00	12.50	117.30	1,383.79	-78.29	151.71	14,529,306.47	2,092,520.37	39° 59' 51.774 N	109° 23' 8.777 W
1,500.00	12.50	117.30	1,481.42	-88.21	170.94	14,529,296.89	2,092,539.78	39° 59' 51.676 N	109° 23' 8.530 W
1,600.00	12.50	117.30	1,579.05	-98.14	190.17	14,529,287.32	2,092,559.19	39° 59' 51.578 N	109° 23' 8.283 W
1,700.00	12.50	117.30	1,676.68	-108.06	209.41	14,529,277.74	2,092,578.60	39° 59' 51.480 N	109° 23' 8.036 W
1,800.00	12.50	117.30	1,774.31	-117.99	228.64	14,529,268.17	2,092,598.01	39° 59' 51.382 N	109° 23' 7.789 W
1,900.00	12.50	117.30	1,871.94	-127.92	247.88	14,529,258.59	2,092,617.42	39° 59' 51.284 N	109° 23' 7.541 W
2,000.00	12.50	117.30	1,969.57	-137.84	267.11	14,529,249.01	2,092,636.83	39° 59' 51.186 N	109° 23' 7.294 W
2,100.00	12.50	117.30	2,067.20	-147.77	286.34	14,529,239.44	2,092,656.24	39° 59' 51.087 N	109° 23' 7.047 W
2,200.00	12.50	117.30	2,164.83	-157.69	305.58	14,529,229.86	2,092,675.65	39° 59' 50.989 N	109° 23' 6.800 W
2,300.00	12.50	117.30	2,262.46	-167.62	324.81	14,529,220.29	2,092,695.06	39° 59' 50.891 N	109° 23' 6.553 W
2,397.86	12.50	117.30	2,358.00	-177.33	343.63	14,529,210.92	2,092,714.05	39° 59' 50.795 N	109° 23' 6.311 W
8 5/8"									
2,400.00	12.50	117.30	2,360.09	-177.54	344.05	14,529,210.71	2,092,714.47	39° 59' 50.793 N	109° 23' 6.305 W
2,500.00	12.50	117.30	2,457.72	-187.47	363.28	14,529,201.14	2,092,733.88	39° 59' 50.695 N	109° 23' 6.058 W
2,520.40	12.50	117.30	2,477.64	-189.49	367.20	14,529,199.18	2,092,737.84	39° 59' 50.675 N	109° 23' 6.008 W
Start Drop -1.75									
2,600.00	11.11	117.30	2,555.55	-196.96	381.67	14,529,191.98	2,092,752.44	39° 59' 50.601 N	109° 23' 5.822 W
2,700.00	9.36	117.30	2,653.96	-205.11	397.46	14,529,184.12	2,092,768.37	39° 59' 50.521 N	109° 23' 5.619 W
2,800.00	7.61	117.30	2,752.86	-211.87	410.56	14,529,177.60	2,092,781.60	39° 59' 50.454 N	109° 23' 5.451 W
2,900.00	5.86	117.30	2,852.17	-217.25	420.98	14,529,172.41	2,092,792.11	39° 59' 50.401 N	109° 23' 5.317 W
3,000.00	4.11	117.30	2,951.78	-221.23	428.70	14,529,168.57	2,092,799.90	39° 59' 50.361 N	109° 23' 5.218 W
3,100.00	2.36	117.30	3,051.62	-223.81	433.71	14,529,166.07	2,092,804.96	39° 59' 50.336 N	109° 23' 5.153 W
3,200.00	0.61	117.30	3,151.58	-225.00	436.01	14,529,164.93	2,092,807.28	39° 59' 50.324 N	109° 23' 5.124 W
3,234.69	0.00	0.00	3,186.27	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
Start 5605.73 hold at 3234.69 MD									
3,300.00	0.00	0.00	3,251.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
3,400.00	0.00	0.00	3,351.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
3,500.00	0.00	0.00	3,451.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
3,600.00	0.00	0.00	3,551.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
3,700.00	0.00	0.00	3,651.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
3,800.00	0.00	0.00	3,751.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
3,900.00	0.00	0.00	3,851.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
4,000.00	0.00	0.00	3,951.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W

Scientific Drilling
Rocky Mountain Operations

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Planning Report - Geographic

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Site:	NBU 922-36B PAD	**North Reference:**	True
Well:	NBU 922-36B4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,100.00	0.00	0.00	4,051.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
4,200.00	0.00	0.00	4,151.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
4,300.00	0.00	0.00	4,251.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
4,400.00	0.00	0.00	4,351.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
4,409.42	0.00	0.00	4,361.00	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
WASATCH									
4,500.00	0.00	0.00	4,451.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
4,600.00	0.00	0.00	4,551.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
4,700.00	0.00	0.00	4,651.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
4,800.00	0.00	0.00	4,751.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
4,900.00	0.00	0.00	4,851.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
5,000.00	0.00	0.00	4,951.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
5,100.00	0.00	0.00	5,051.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
5,200.00	0.00	0.00	5,151.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
5,300.00	0.00	0.00	5,251.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
5,400.00	0.00	0.00	5,351.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
5,500.00	0.00	0.00	5,451.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
5,600.00	0.00	0.00	5,551.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
5,700.00	0.00	0.00	5,651.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
5,800.00	0.00	0.00	5,751.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
5,900.00	0.00	0.00	5,851.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
6,000.00	0.00	0.00	5,951.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
6,100.00	0.00	0.00	6,051.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
6,200.00	0.00	0.00	6,151.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
6,300.00	0.00	0.00	6,251.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
6,400.00	0.00	0.00	6,351.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
6,500.00	0.00	0.00	6,451.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
6,600.00	0.00	0.00	6,551.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
6,609.42	0.00	0.00	6,561.00	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
MESAVERDE									
6,700.00	0.00	0.00	6,651.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
6,800.00	0.00	0.00	6,751.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
6,900.00	0.00	0.00	6,851.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
7,000.00	0.00	0.00	6,951.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
7,100.00	0.00	0.00	7,051.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
7,200.00	0.00	0.00	7,151.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
7,300.00	0.00	0.00	7,251.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
7,400.00	0.00	0.00	7,351.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
7,500.00	0.00	0.00	7,451.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
7,600.00	0.00	0.00	7,551.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
7,700.00	0.00	0.00	7,651.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
7,800.00	0.00	0.00	7,751.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
7,900.00	0.00	0.00	7,851.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
8,000.00	0.00	0.00	7,951.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
8,100.00	0.00	0.00	8,051.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
8,200.00	0.00	0.00	8,151.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
8,300.00	0.00	0.00	8,251.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
8,400.00	0.00	0.00	8,351.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
8,500.00	0.00	0.00	8,451.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
8,600.00	0.00	0.00	8,551.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
8,700.00	0.00	0.00	8,651.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
8,800.00	0.00	0.00	8,751.58	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W

Scientific Drilling
Rocky Mountain Operations

SDI

Planning Report - Geographic

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 5015' & KB 4' @ 5019.00ft (ASSUMED)
Site:	NBU 922-36B PAD	**North Reference:**	True
Well:	NBU 922-36B4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,840.42	0.00	0.00	8,792.00	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W
PBHL_NBU 922-36B4BS									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-36B4BS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,792.00	-225.08	436.17	14,529,164.85	2,092,807.44	39° 59' 50.323 N	109° 23' 5.122 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,397.86	2,358.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,273.20	1,260.00	GREEN RIVER			
4,409.42	4,361.00	WASATCH			
6,609.42	6,561.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
925.00	920.05	-31.14	60.35	Start 1595.40 hold at 925.00 MD
2,520.40	2,477.64	-189.49	367.20	Start Drop -1.75
3,234.69	3,186.27	-225.08	436.17	Start 5605.73 hold at 3234.69 MD
8,840.42	8,792.00	-225.08	436.17	TD at 8840.42

NBU 922-36A1CS
Surface: 678’ FNL 2273’ FEL (NW/4NE/4)
BHL: 485’ FNL 494’ FEL (NE/4NE/4)

NBU 922-36B1CS
Surface: 674’ FNL 2282’ FEL (NW/4NE/4)
BHL: 579’ FNL 1821’ FEL (NW/4NE/4)

NBU 922-36B4BS
Surface: 682’ FNL 2264’ FEL (NW/4NE/4)
BHL: 905’ FNL 1828’ FEL (NW/4NE/4)

NBU 922-36G1BS
Surface: 671’ FNL 2291’ FEL (NW/4NE/4)
BHL: 1439’ FNL 1861’ FEL (SW/4NE/4)

Pad: NBU 922-36B Pad
Section 36 T9S R22E
Mineral Lease: ML-22650

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

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Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

No new access road is proposed. (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

If there are roads that are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

During the onsite, turnouts, major cut and fills, culverts, bridges, gates, cattle guards, low water crossings, or modifications needed to existing infrastructure/facilities were determined, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 922-36B. The NBU 922-36B well location is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of May 5, 2011.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of the well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

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The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is ±3,760' and the individual segments are broken up as follows:

- ±40' (0.01 miles) –New 6" buried gas pipeline from the meter to the 36C intersection on pad. Please refer to Topo D2.
- ±450' (0.09 miles) –New 16" buried gas pipeline from the 36C intersection to the edge of the pad. Please refer to Topo D.
- ±3,270' (0.62 miles) –New 16" buried gas pipeline from the edge of the pad to the proposed 36I intersection. Please refer to Topo D.

The total liquid gathering pipeline distance from the separator to the tie in point is ±3,760'and the individual segments are broken up as follows:

- ±40' (0.01 miles) –New 6" buried liquid pipeline from the separator to the 36C intersection. Please refer to Topo D2.
- ±450' (0.09 miles) –New 6" buried liquid pipeline from the 36 C intersection to the edge of the pad. Please refer to Topo D.
- ±3,270' (0.62 miles) –New 6" buried liquid pipeline from the edge of the pad to the proposed 36I intersection. Please refer to Topo D.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. KMG requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, KMG requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

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Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity and ownership, as well as to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E

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NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker, The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly,

and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, including accidental release of fluids, or release in excess of reportable quantities, will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule. Where State wells are participatory to a Federal agreement, according to NTL-3A, the appropriate Federal agencies will be notified.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit, access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1927 (NAD27) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire

surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

K. Other Information:

None

M. **Lessee's or Operators' Representative & Certification:**

Gina T. Becker
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T. Becker

May 9, 2011
Date

JOE JOHNSON
LANDMAN

KERR-MCGEE ONSHORE OIL & GAS, L.P.
1099 18TH STREET, SUITE 1800, DENVER, CO 80202
720-929-6708 • FAX 720-929-7708
E-MAIL:
JOE.JOHNSON@ANADARKO.COM

April 13, 2011

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 922-36B4BS
T9S-R22E
Section 36: NWNE/NWNE
Surface: 682' FNL, 2264' FEL
Bottom Hole: 905' FNL, 1828' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 922-36B4BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joseph D. Johnson
Landman

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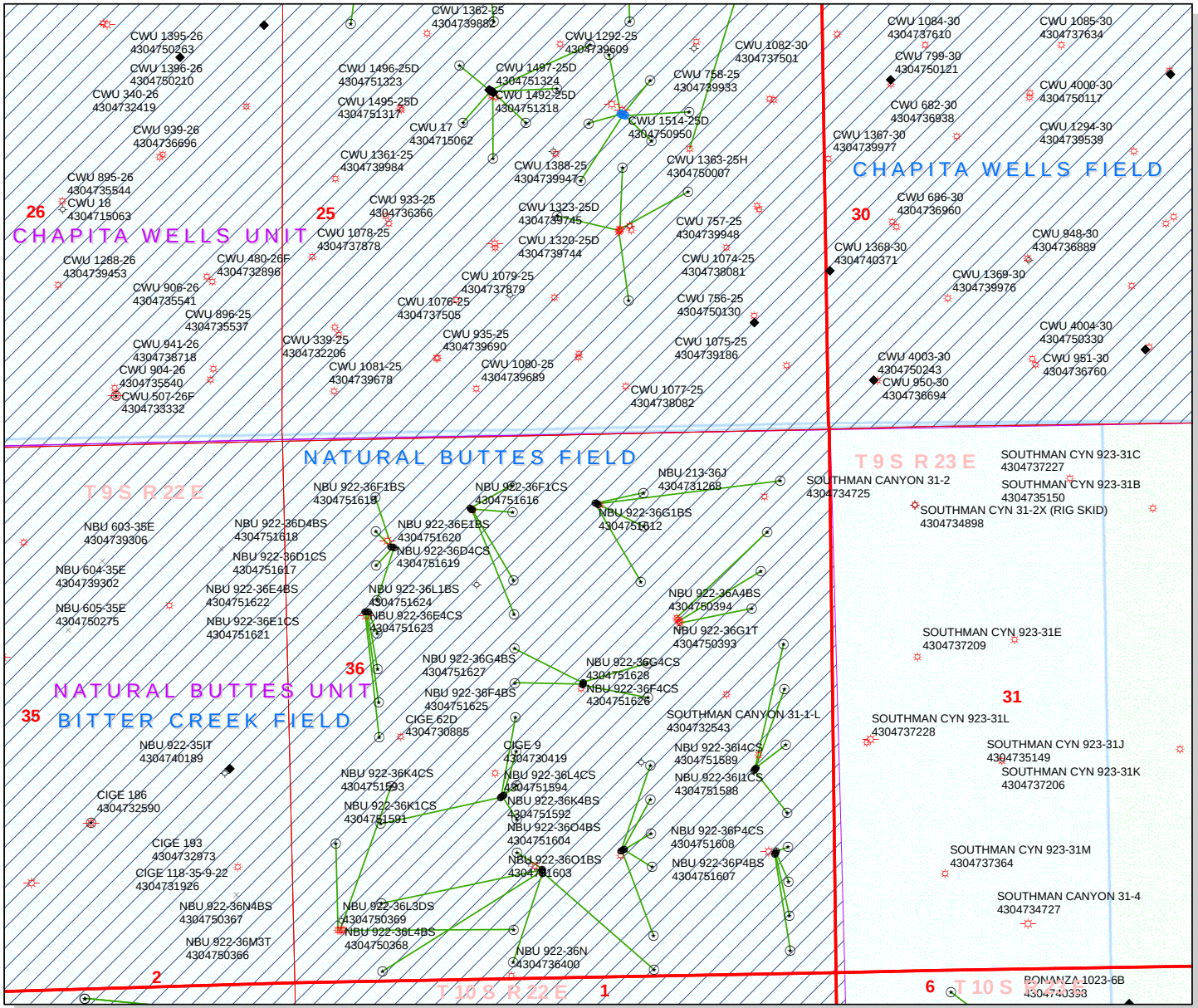
API Well Number: 43047516110000



API Number: 4304751611

Well Name: NBU 922-36B4BS

Township T0.9 . Range R2.2 . Section 36

Meridian: SLBM

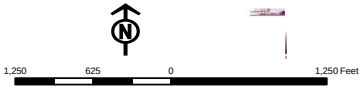
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
ACTIVE
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED

Fields
STATUS
Unknown
ABANDONED
ACTIVE
COMBINED
INACTIVE
STORAGE
TERMINATED
Sections
Township

Wells Query
Status
APD - Aproved Permit
DRL - Spuded (Drilling Commenced)
GIW - Gas Injection
GS - Gas Storage
LA - Location Abandoned
LOC - New Location
OPS - Operation Suspended
PA - Plugged Abandoned
PGW - Producing Gas Well
POW - Producing Oil Well
RET - Returned APD
SGW - Shut-in Gas Well
SOW - Shut-in Oil Well
TA - Temp. Abandoned
TW - Test Well
WDW - Water Disposal
WIW - Water Injection Well
WSW - Water Supply Well



1:12,000

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United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

May 20, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 922-36I PAD

43-047-51586	NBU 922-36H4BS	Sec 36 T09S R22E 2006 FSL 0799 FEL
		BHL Sec 36 T09S R22E 2071 FNL 0494 FEL
43-047-51587	NBU 922-36H4CS	Sec 36 T09S R22E 2014 FSL 0792 FEL
		BHL Sec 36 T09S R22E 2508 FNL 0495 FEL
43-047-51588	NBU 922-36I1CS	Sec 36 T09S R22E 2021 FSL 0785 FEL
		BHL Sec 36 T09S R22E 2237 FSL 0494 FEL
43-047-51589	NBU 922-36I4CS	Sec 36 T09S R22E 1999 FSL 0805 FEL
		BHL Sec 36 T09S R22E 1574 FSL 0493 FEL

NBU 922-36K PAD

43-047-51590	NBU 922-36K1BS	Sec 36 T09S R22E 1798 FSL 1998 FWL
		BHL Sec 36 T09S R22E 2567 FSL 2148 FWL
43-047-51591	NBU 922-36K1CS	Sec 36 T09S R22E 1809 FSL 2015 FWL
		BHL Sec 36 T09S R22E 2236 FSL 2147 FWL
43-047-51592	NBU 922-36K4BS	Sec 36 T09S R22E 1815 FSL 2023 FWL
		BHL Sec 36 T09S R22E 1904 FSL 2147 FWL
43-047-51593	NBU 922-36K4CS	Sec 36 T09S R22E 1804 FSL 2006 FWL
		BHL Sec 36 T09S R22E 1573 FSL 2146 FWL
43-047-51594	NBU 922-36L4CS	Sec 36 T09S R22E 1793 FSL 1990 FWL
		BHL Sec 36 T09S R22E 1565 FSL 0821 FWL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE		
NBU 922-36N PAD		
43-047-51595	NBU 922-36M1CS	Sec 36 T09S R22E 1078 FSL 2379 FWL
		BHL Sec 36 T09S R22E 0792 FSL 0816 FWL
43-047-51596	NBU 922-36M4CS	Sec 36 T09S R22E 1068 FSL 2379 FWL
		BHL Sec 36 T09S R22E 0132 FSL 0819 FWL
43-047-51597	NBU 922-36N1BS	Sec 36 T09S R22E 1088 FSL 2379 FWL
		BHL Sec 36 T09S R22E 1253 FSL 2140 FWL
43-047-51598	NBU 922-36N4CS	Sec 36 T09S R22E 1048 FSL 2379 FWL
		BHL Sec 36 T09S R22E 0190 FSL 2081 FWL
43-047-51599	NBU 922-36O4CS	Sec 36 T09S R22E 1058 FSL 2379 FWL
		BHL Sec 36 T09S R22E 0085 FSL 1814 FEL
NBU 922-36O PAD		
43-047-51600	NBU 922-36J1CS	Sec 36 T09S R22E 1247 FSL 2113 FEL
		BHL Sec 36 T09S R22E 2071 FSL 1809 FEL
43-047-51601	NBU 922-36J4BS	Sec 36 T09S R22E 1254 FSL 2094 FEL
		BHL Sec 36 T09S R22E 1740 FSL 1816 FEL
43-047-51602	NBU 922-36J4CS	Sec 36 T09S R22E 1261 FSL 2075 FEL
		BHL Sec 36 T09S R22E 1409 FSL 1816 FEL
43-047-51603	NBU 922-36O1BS	Sec 36 T09S R22E 1257 FSL 2085 FEL
		BHL Sec 36 T09S R22E 1078 FSL 1815 FEL
43-047-51604	NBU 922-36O4BS	Sec 36 T09S R22E 1250 FSL 2103 FEL
		BHL Sec 36 T09S R22E 0415 FSL 1814 FEL
NBU 922-36P PAD		
43-047-51605	NBU 922-36P1BS	Sec 36 T09S R22E 1207 FSL 0606 FEL
		BHL Sec 36 T09S R22E 1243 FSL 0493 FEL
43-047-51606	NBU 922-36P1CS	Sec 36 T09S R22E 1198 FSL 0611 FEL
		BHL Sec 36 T09S R22E 0911 FSL 0493 FEL
43-047-51607	NBU 922-36P4BS	Sec 36 T09S R22E 1189 FSL 0616 FEL
		BHL Sec 36 T09S R22E 0580 FSL 0493 FEL
43-047-51608	NBU 922-36P4CS	Sec 36 T09S R22E 1181 FSL 0621 FEL
		BHL Sec 36 T09S R22E 0243 FSL 0492 FEL
NBU 922-36B PAD		
43-047-51609	NBU 922-36A1CS	Sec 36 T09S R22E 0678 FNL 2273 FEL
		BHL Sec 36 T09S R22E 0485 FNL 0494 FEL
43-047-51610	NBU 922-36B1CS	Sec 36 T09S R22E 0674 FNL 2282 FEL
		BHL Sec 36 T09S R22E 0579 FNL 1821 FEL
43-047-51611	NBU 922-36B4BS	Sec 36 T09S R22E 0682 FNL 2264 FEL
		BHL Sec 36 T09S R22E 0905 FNL 1828 FEL

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API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE

43-047-51612 NBU 922-36G1BS Sec 36 T09S R22E 0671 FNL 2291 FEL
BHL Sec 36 T09S R22E 1439 FNL 1861 FEL

NBU 922-36C PAD

43-047-51613 NBU 922-36C1CS Sec 36 T09S R22E 0700 FNL 1741 FWL
BHL Sec 36 T09S R22E 0485 FNL 2152 FWL

43-047-51614 NBU 922-36C4BS Sec 36 T09S R22E 0706 FNL 1749 FWL
BHL Sec 36 T09S R22E 0746 FNL 2153 FWL

43-047-51615 NBU 922-36F1BS Sec 36 T09S R22E 0718 FNL 1765 FWL
BHL Sec 36 T09S R22E 1407 FNL 2151 FWL

43-047-51616 NBU 922-36F1CS Sec 36 T09S R22E 0712 FNL 1757 FWL
BHL Sec 36 T09S R22E 1738 FNL 2150 FWL

NBU 922-36D PAD

43-047-51617 NBU 922-36D1CS Sec 36 T09S R22E 1062 FNL 0981 FWL
BHL Sec 36 T09S R22E 0579 FNL 0825 FWL

43-047-51618 NBU 922-36D4BS Sec 36 T09S R22E 1060 FNL 0971 FWL
BHL Sec 36 T09S R22E 0910 FNL 0825 FWL

43-047-51619 NBU 922-36D4CS Sec 36 T09S R22E 1064 FNL 0990 FWL
BHL Sec 36 T09S R22E 1241 FNL 0825 FWL

43-047-51620 NBU 922-36E1BS Sec 36 T09S R22E 1067 FNL 1000 FWL
BHL Sec 36 T09S R22E 1572 FNL 0825 FWL

NBU 922-36E PAD

43-047-51621 NBU 922-36E1CS Sec 36 T09S R22E 1682 FNL 0739 FWL
BHL Sec 36 T09S R22E 1903 FNL 0824 FWL

43-047-51622 NBU 922-36E4BS Sec 36 T09S R22E 1684 FNL 0729 FWL
BHL Sec 36 T09S R22E 2245 FNL 0818 FWL

43-047-51623 NBU 922-36E4CS Sec 36 T09S R22E 1686 FNL 0719 FWL
BHL Sec 36 T09S R22E 2565 FNL 0824 FWL

43-047-51624 NBU 922-36L1BS Sec 36 T09S R22E 1688 FNL 0709 FWL
BHL Sec 36 T09S R22E 2401 FSL 0824 FWL

NBU 922-36G3 PAD

43-047-51625 NBU 922-36F4BS Sec 36 T09S R22E 2414 FNL 2443 FEL
BHL Sec 36 T09S R22E 2070 FNL 2149 FWL

43-047-51626 NBU 922-36F4CS Sec 36 T09S R22E 2424 FNL 2445 FEL
BHL Sec 36 T09S R22E 2401 FNL 2149 FWL

43-047-51627 NBU 922-36G4BS Sec 36 T09S R22E 2405 FNL 2441 FEL
BHL Sec 36 T09S R22E 2235 FNL 1818 FEL

43-047-51628 NBU 922-36G4CS Sec 36 T09S R22E 2434 FNL 2447 FEL
BHL Sec 36 T09S R22E 2566 FNL 1818 FEL

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This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2011.05.23 07:16:05 -06'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:5-20-11

RECEIVED: Jun. 27, 2011

From: Jim Davis
To: Bonner, Ed; Garrison, LaVonne; Hill, Brad; Mason, Diana
CC: Gina Becker; Lytle, Andy
Date: 6/8/2011 3:00 PM
Subject: Kerr McGee APD approvals.

The following APDs have been approved by SITLA including arch and paleo clearance.

4304751586	NBU 922-36H4BS
4304751587	NBU 922-36H4CS
4304751588	NBU 922-36I1CS
4304751589	NBU 922-36I4CS
4304751590	NBU 922-36K1BS
4304751591	NBU 922-36K1CS
4304751592	NBU 922-36K4BS
4304751593	NBU 922-36K4CS
4304751594	NBU 922-36L4CS
4304751595	NBU 922-36M1CS
4304751596	NBU 922-36M4CS
4304751597	NBU 922-36N1BS
4304751598	NBU 922-36N4CS
4304751599	NBU 922-36O4CS
4304751600	NBU 922-36J1CS
4304751601	NBU 922-36J4BS
4304751602	NBU 922-36J4CS
4304751603	NBU 922-36O1BS
4304751604	NBU 922-36O4BS
4304751605	NBU 922-36P1BS
4304751606	NBU 922-36P1CS
4304751607	NBU 922-36P4BS
4304751608	NBU 922-36P4CS
4304751613	NBU 922-36C1CS
4304751614	NBU 922-36C4BS
4304751615	NBU 922-36F1BS
4304751616	NBU 922-36F1CS
4304751617	NBU 922-36D1CS
4304751618	NBU 922-36D4BS
4304751619	NBU 922-36D4CS
4304751620	NBU 922-36E1BS
4304751621	NBU 922-36E1CS
4304751622	NBU 922-36E4BS
4304751623	NBU 922-36E4CS
4304751624	NBU 922-36L1BS
4304751625	NBU 922-36F4BS
4304751626	NBU 922-36F4CS
4304751627	NBU 922-36G4BS
4304751628	NBU 922-36G4CS

Full paleo monitoring is a required condition for the approval of these APDs- as recommended in the paleo report.

4304751609	NBU 922-36A1CS
4304751610	NBU 922-36B1CS
4304751611	NBU 922-36B4BS
4304751612	NBU 922-36G1BS

Thanks.
-Jim

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Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

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API Well Number: 43047516110000

BOPE REVIEW KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 922-36B4BS 43047516110000

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 922-36B4BS			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2321	8792		
Previous Shoe Setting Depth (TVD)	0	2321		
Max Mud Weight (ppg)	8.4	12.5		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5803	12.7		

Calculations	Surf String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	1014		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	735	NO	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	503	NO	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	503	NO	
Required Casing/BOPE Test Pressure=		2321	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

Calculations	Prod String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	5715		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4660	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3781	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4291	NO	Reasonable
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2321	psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	

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***Max Pressure Allowed @ Previous Casing Shoe=**		psi *Assumes 1psi/ft frac gradient

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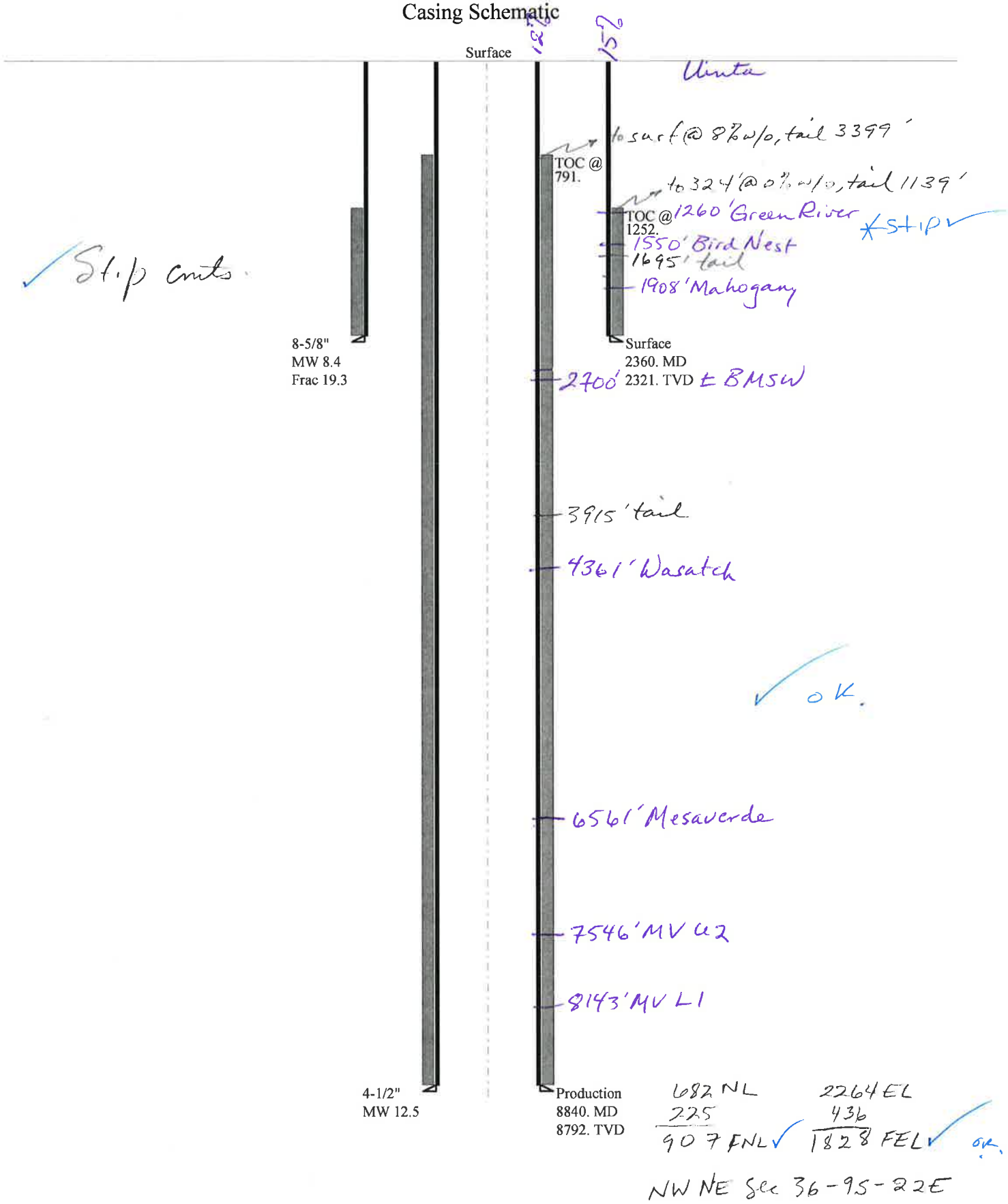
43047516110000 NBU 922-36B4BS

Casing Schematic



Well name:	43047516110000 NBU 922-36B4BS
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.
String type:	Surface
Project ID:	43-047-51611
Location:	UINTAH COUNTY

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 2,077 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,355 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,066 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 106 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,252 ft

Directional Info - Build & Drop
Kick-off point 300 ft
Departure at shoe: 379 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 12.5 °

Re subsequent strings:
Next setting depth: 8,792 ft
Next mud weight: 12.500 ppg
Next setting BHP: 5,709 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,360 ft
Injection pressure: 2,360 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	2360	8.625	28.00	I-55	LT&C	2321	2360	7.892	93456

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1013	1880	1.856	2355	3390	1.44	65	348	5.35 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: June 22,2011
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2321 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

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Well name:	**43047516110000 NBU 922-36B4BS**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Production
Project ID:	43-047-51611
Location:	UINTAH COUNTY

Design parameters:

Collapse

Mud weight:	12.500 ppg
Internal fluid density:	1.000 ppg

Burst

Max anticipated surface pressure:	3,775 psi
Internal gradient:	0.220 psi/ft
Calculated BHP	5,709 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor	1.125

Burst:

Design factor	1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.60 (B)

Tension is based on air weight.
Neutral point: 7,197 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	197 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	100 ft
Cement top:	791 ft

Directional Info - Build & Drop

Kick-off point	300 ft
Departure at shoe:	491 ft
Maximum dogleg:	2 °/100ft
Inclination at shoe:	0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	8840	4.5	11.60	I-80	LT&C	8792	8840	3.875	116688

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5252	6360	1.211	5709	7780	1.36	102	212	2.08 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: June 22,2011
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 8792 ft, a mud weight of 12.5 ppg An internal gradient of .052 psi/ft was used for collapse from TD
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

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ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.								
Well Name	NBU 922-36B4BS								
API Number	43047516110000			**APD No**	3785	**Field/Unit**		NATURAL BUTTES	
Location: 1/4,1/4	NWNE	**Sec** 36	**Tw** 9.0S	**Rng** 22.0E	682	FNL	2264	FEL	
GPS Coord (UTM)	637760 4428557			**Surface Owner**					

Participants

Floyd Bartlett (DOGM), Sheila Wopsock, Lovell Young, Gina Becker, Mark Koehn, Griz Oleen (Kerr McGee), Ben Williams (UDWR) and Mitch Batty, John Slaugh (Timberline Engineering and Land Surveying).

Regional/Local Setting & Topography

The general area is in the southeast portion of the Natural Buttes Unit, which contains the White River and rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¾ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 42 air miles to the northwest. Access from Vernal is approximately 44.4 road miles following Utah State, Uintah County and oilfield development roads to the location.

Four additional gas wells will be added to and directionally drilled from the NBU 922-36B pad. They are the NBU 922-36G1BS, NBU 922-36B1CS, NBU 922-36A1CS and NBU 922-36B4BS. The pad contains the existing NBU 922-36B gas well. The existing pad will be significantly enlarged in all directions. The site is in a small basin surrounded with moderate to steep side-hills except to the southwest. The pad and reserve pit extend onto the steep side-hills to the southeast and south and continue to the west. Some minor rills or swales interrupt this south side hill but a diversion is not warranted. Flow from the basin to the southwest will be re-diverted with a small berm and ditch along the edge of the pad. Where the pad is cut into the steep side slopes, leave the cut slope at about ¼:1 to reduce the amount of cutting and disturbance. On the north side of the pad (Corners 11-2) fill will extend across the natural drainage. A diversion ditch is needed along the side slope beyond the pad returning flows to the natural drainage. After the pit is reclaimed, a pond should be considered in the small basin that extends to the southwest beyond corner 9. Excess spoils can be used for the embankment. Maximum cut is 16.2 feet at Pit Corner C and maximum fill is 10.7 feet at Corner 2. The White River is approximately 1 ½ miles to the west. The existing pad shows no stability problems and the site has no significant concerns for constructing an enlarged pad and drilling and operating the planned wells. It is the only suitable location in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use
Grazing
Wildlfe Habitat
Existing Well Pad

New Road Miles	**Well Pad**	**Src Const Material**	**Surface Formation**
0	**Width** 240 **Length** 440	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

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Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Area beyond the existing pad is poorly vegetated with greasewood, cheatgrass, black sagebrush, broom snakeweed, globemallow, Sitanion hystrix , shadscale, rabbitbrush, loco weed, pepper weed, halogeton and annuals.

Sheep, deer, antelope, coyote, and other small mammals and birds.

Soil Type and Characteristics

Soils are a shallow rocky sandy loam.

Erosion Issues Y

Flow from the basin to the southwest will be re-diverted with a small berm and ditch along the edge of the pad.

Sedimentation Issues Y

Flow from the basin to the southwest will be re-diverted with a small berm and ditch along the edge of the pad.

Site Stability Issues N

Drainage Diverson Required? Y

Flow from the basin to the southwest will be re-diverted with a small berm and ditch along the edge of the pad.

Berm Required? Y

Flow from the basin to the southwest will be re-diverted with a small berm and ditch along the edge of the pad.

Erosion Sedimentation Control Required? Y

On the north side of the pad (Corners 11-2) fill will extend across the natural drainage. A diversion ditch is needed along the side slope beyond the pad returning flows to the natural drainage.

Paleo Survey Run? Y **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0

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Final Score 40 1 Sensitivity Level

Characteristics / Requirements

The reserve pit is planned mostly in an area of cut in the northwest side of the location. Dimensions are 120’ x 260’ x 12’ deep with 2’ of freeboard. The east end of the pit is tapered to avoid excessive cut in this area. Because the length of time the reserve pit will be used and the roughness of the terrain, Kerr McGee committed to line it with a 30-mil.liner and an appropriate thickness of felt sub-liner to cushion the rock.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett	5/24/2011
Evaluator	**Date / Time**

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Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3785	43047516110000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		**Surface Owner-APD**		
Well Name	NBU 922-36B4BS		**Unit**	NATURAL BUTTES	
Field	NATURAL BUTTES		**Type of Work**	DRILL	
Location	NWNE 36 9S 22E S 682 FNL 2264 FEL		GPS Coord (UTM)	637746E 4428566N	

Geologic Statement of Basis

Kerr McGee proposes to set 2,360’ of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,700'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location . The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The production casing cement should be brought up above the base of the moderately saline ground water in order to isolate it from fresher waters up hole. The proposed casing and cement should adequately protect any usable ground water.

Brad Hill	6/20/2011
APD Evaluator	**Date / Time**

Surface Statement of Basis

The general area is in the southeast portion of the Natural Buttes Unit, which contains the White River and rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¾ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 42 air miles to the northwest. Access from Vernal is approximately 44.4 road miles following Utah State, Uintah County and oilfield development roads to the location.

Four additional gas wells will be added to and directionally drilled from the NBU 922-36B pad. They are the NBU 922-36G1BS, NBU 922-36B1CS, NBU 922-36A1CS and NBU 922-36B4BS. The pad contains the existing NBU 922-36B gas well. The existing pad will be significantly enlarged in all directions. The site is in a small basin surrounded with moderate to steep side-hills except to the southwest. The pad and reserve pit extend onto the steep side-hills to the southeast and south and continue to the west. Some minor rills or swales interrupt this south side hill but a diversion is not warranted. Flow from the basin to the southwest will be re-diverted with a small berm and ditch along the edge of the pad. Where the pad is cut into the steep side slopes, leave the cut slope at about ¼:1 to reduce the amount of cutting and disturbance. On the north side of the pad (Corners 11-2) fill will extend across the natural drainage. A diversion ditch is needed along the side slope beyond the pad returning flows to the natural drainage. After the pit is reclaimed, a pond should be considered in the small basin that extends to the southwest beyond corner 9. Excess spoils can be used for the embankment. Maximum cut is 16.2 feet at Pit Corner C and maximum fill is 10.7 feet at Corner 2. The White River is approximately 1 ½ miles to the west. The existing pad shows no stability problems and the site has no significant concerns for constructing an enlarged pad and drilling and operating the planned wells. It is the only suitable location in the immediate area.

Both the surface and minerals are owned by SITLA. Ed Bonner and Jim Davis of SITLA were invited to attend the pre-site evaluation. Neither attended. SITLA is to be contacted for reclamation standards including a seed mix to be used.

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Application for Permit to Drill
Statement of Basis

Ben Williams of the Utah Division of Wildlife Resources attended the pre-site. Mr. Williams stated no wildlife values would be significantly affected by drilling and operating the additional wells at this location.

Floyd Bartlett	5/24/2011
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

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WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/13/2011 **API NO. ASSIGNED:** 43047516110000
WELL NAME: NBU 922-36B4BS
OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6086
CONTACT: Gina Becker

PROPOSED LOCATION: NWNE 36 090S 220E **Permit Tech Review:** ☑
SURFACE: 0682 FNL 2264 FEL **Engineering Review:** ☑
BOTTOM: 0905 FNL 1828 FEL **Geology Review:** ☑
COUNTY: UINTAH
LATITUDE: 39.99795 **LONGITUDE:** -109.38642
UTM SURF EASTINGS: 637746.00 **NORTHINGS:** 4428566.00
FIELD NAME: NATURAL BUTTES
LEASE TYPE: 3 - State
LEASE NUMBER: ML-22650 **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE
SURFACE OWNER: 3 - State **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE/FEE - 22013542
- ☐ **Potash**
- ☑ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☑ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: NATURAL BUTTES

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 173-14
Effective Date: 12/2/1999
Siting: Suspends General Siting

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
3 - Commingling - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmacdonald

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GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: NBU 922-36B4BS
API Well Number: 43047516110000
Lease Number: ML-22650
Surface Owner: STATE
Approval Date: 6/27/2011

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:
In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-22650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-36B4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047516110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0682 FNL 2264 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 36 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 11/18/2011	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 11/18/2011 AT 1400 HRS.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 11/22/2011

RECEIVED Nov. 22, 2011

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
Well Name/Number NBU 922-36B4BS
Qtr/Qtr NW/NE Section 36 Township 9S Range 22E
Lease Serial Number ML-22650
API Number 4304751611

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 11/17/2011 0800 HRS AM ☑ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☑ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 11/30/2011 0800 HRS AM ☑ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED
NOV 16 2011
DIV. OF OIL, GAS & MINING

Date/Time _____ _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT ~~LOVEL YOUNG AT 435.781.7051 FOR MORE~~

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751611	NBU 922-36B4BS		NWNE	36	9S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	11/18/2011			11/30/11	
Comments: MIRU PETE MARTIN BUCKET RIG. SPUD WELL ON 11/18/2011 AT 1400 HRS. WSMVD BHL= NWNE							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
Comments:							

ACTION CODES:
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK
Name (Please Print)
Signature
REGULATORY ANALYST
Title
11/22/2011
Date

(5/2000)

RECEIVED
NOV 22 2011
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-36B4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047516110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0682 FNL 2264 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 36 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
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☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 1/12/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU AIR RIG ON JAN. 8, 2012. DRILLED SURFACE HOLE TO 2560'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 13, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 1/13/2012

RECEIVED: Jan. 13, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: ML-22650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-36B4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047516110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0682 FNL 2264 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 36 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 1/17/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
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☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
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	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for a FIT wavier, closed loop drilling option, and a production casing change. All other aspects of the previously approved drilling plan will not change. Please see the attachment. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: February 02, 2012

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 1/17/2012

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Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-36B4BS

Surface:	682 FNL / 2264 FEL	NWNE
BHL:	905 FNL / 1828 FEL	NWNE

Section 36 T9S R22E

Uintah County, Utah
Mineral Lease: ML-22650

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1,260'	
Birds Nest	1,552'	Water
Mahogany	1,908'	Water
Wasatch	4,361'	Gas
Mesaverde	6,561'	Gas
MVU2	7,546'	Gas
MVL1	8,143'	Gas
TVD	8,792'	
TD	8,840'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

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7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8792' TVD, approximately equals 5,627 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,680 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

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Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements
KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

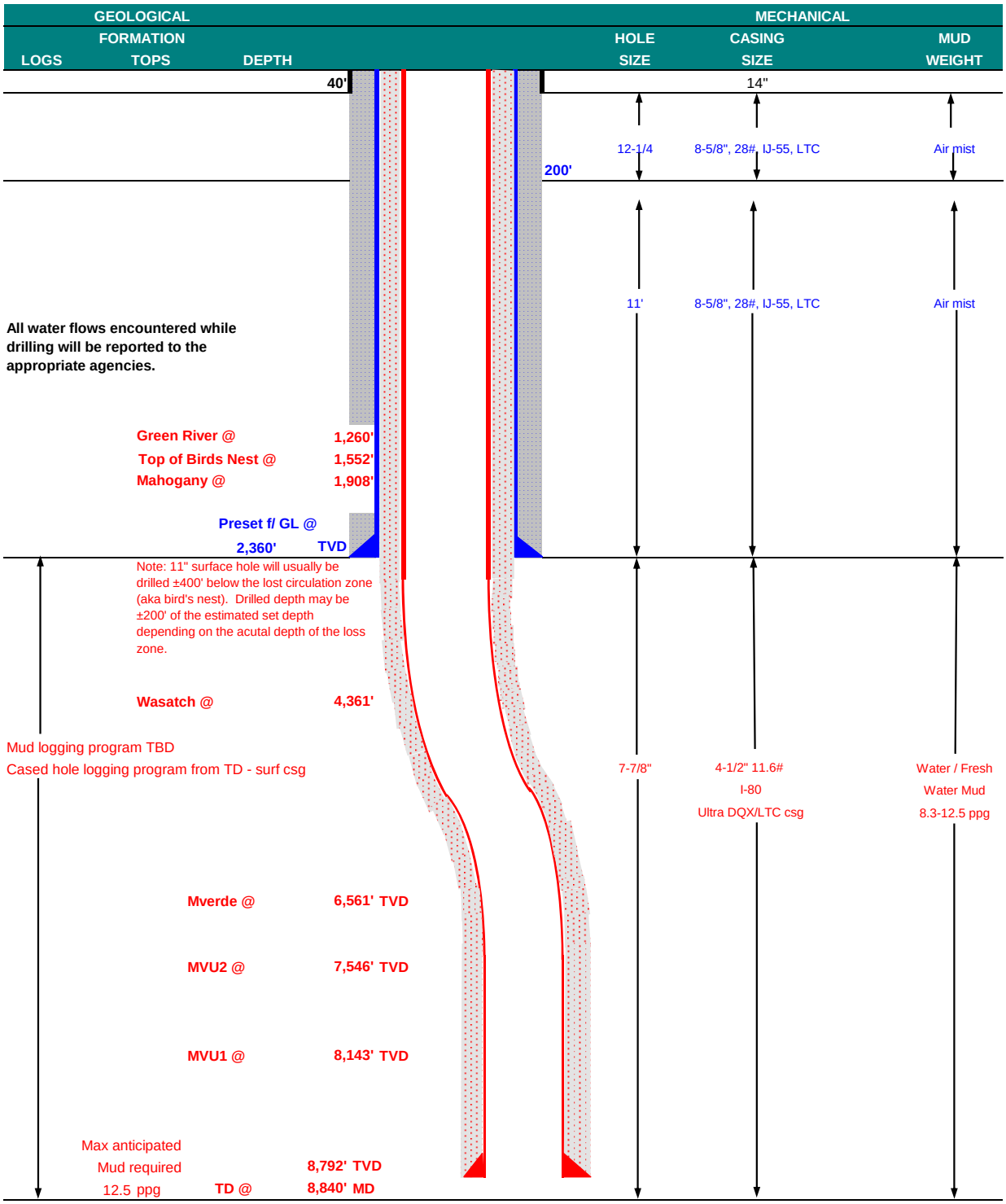
Please refer to the attached Drilling Program.

RECEIVED: Jan. 17, 2012

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	January 17, 2012
WELL NAME	**NBU 922-36B4BS**	TD	8,792' TVD 8,840' MD
FIELD	Natural Buttes	COUNTY Uintah STATE Utah	FINISHED ELEVATION 5,015'
SURFACE LOCATION	NWNE 682 FNL 2264 FEL Sec 36 T 9S R 22E		
	Latitude: 39.997930 Longitude: -109.386313		NAD 27
BTM HOLE LOCATION	NWNE 905 FNL 1828 FEL Sec 36 T 9S R 22E		
	Latitude: 39.997312 Longitude: -109.384756		NAD 27
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.		



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC	DQX TENSION
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,360	28.00	IJ-55	LTC	2.29	1.70	6.01	N/A
								7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.11		3.22
	4-1/2"	5,000	to	8,840'	11.60	I-80	LTC	1.11	1.11	6.19	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized						
Option 2	LEAD	1,860'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,860'	Premium Lite II +0.25 pps	300	35%	12.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	4,980'	50/50 Poz/G + 10% salt + 2% gel	1,180	35%	14.30		1.31
			+ 0.1% R-3					

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____

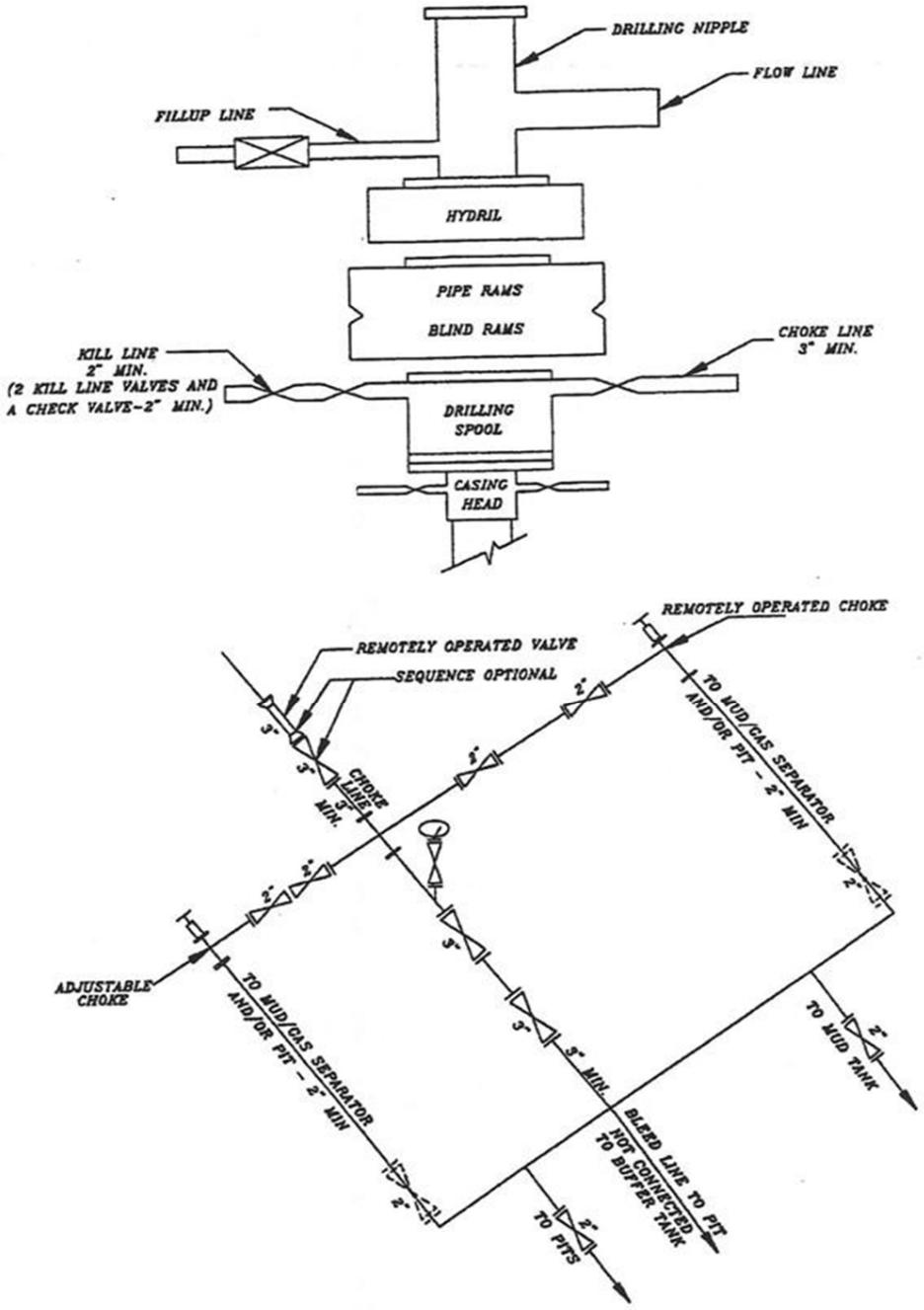
Nick Spence / Danny Showers / Chad Loesel

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

RECEIVED: Jan. 17, 2012

EXHIBIT A
NBU 922-36B4BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

RECEIVED: Jan. 17, 2012

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 138
Submitted By BRAD PEDERSEN Phone Number 435- 828-0982
Well Name/Number NBU 922-36B4BS
Qtr/Qtr NW/NE Section 36 Township 9S Range 22E
Lease Serial Number ML-22650
API Number 43-047-51611

Casing – Time casing run starts, not cementing times.

☐ Production Casing
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

BOPE

☒ Initial BOPE test at surface casing point
☐ Other

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Date/Time 2/6/2012 10:00 AM ☒ PM ☐

Rig Move
Location To: BONANZA 922-36B4BS

Date/Time 2/5/2012 07:00 AM ☒ PM ☐

Remarks TIME IS ESTIMATED

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-22650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-36B4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047516110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0682 FNL 2264 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 36 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 2/12/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU ROTARY RIG. FINISHED DRILLING FROM 2560' TO 8840' ON FEBRUARY 10, 2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN 138 RIG ON FEBRUARY 12, 2012 @ 19:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
February 15, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 2/13/2012

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 138
Submitted By BRAD PEDERSEN Phone Number 435- 828-0982
Well Name/Number NBU 922-36B4BS
Qtr/Qtr NW/NE Section 36 Township 9S Range 22E
Lease Serial Number ML-22650
API Number 43-047-51611

Casing – Time casing run starts, not cementing times.

☒ Production Casing
☐ Other

Date/Time 2/11/12 20:00 AM ☐ PM ☒

BOPE

☐ Initial BOPE test at surface casing point
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

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FEB 10 2012
DIV. OF OIL, GAS & MINING

Rig Move
Location To: NBU 922-36A1CS

Date/Time 2/12/2012 13:00 AM ☐ PM ☒

Remarks TIME IS ESTIMATED

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-22650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-36B4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047516110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0682 FNL 2264 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 36 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 4/18/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 04/18/2012 AT 1130 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 08, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE		**DATE**
N/A		4/19/2012

RECEIVED: Apr. 19, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22650
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: UTU63047A
8. WELL NAME and NUMBER: NBU 922-36B4BS
9. API NUMBER: 4304751611
10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217
PHONE NUMBER: (720) 929-6000

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: NWNE 682 FNL 2264 FEL S36,T9S,R22E
AT TOP PRODUCING INTERVAL REPORTED BELOW: NWNE 893 FNL 1835 FEL S36,T9S,R22E
AT TOTAL DEPTH: NWNE 913 FNL 1830 FEL S36,T9S,R22E BHL by HSM

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 36 9S 22E S
12. COUNTY: UINTAH
13. STATE: UTAH

14. DATE SPUDDED: 11/18/2011
15. DATE T.D. REACHED: 2/10/2012
16. DATE COMPLETED: 4/18/2012 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 5015 GL

18. TOTAL DEPTH: MD 8,840 TVD 8,794
19. PLUG BACK T.D.: MD 8,784 TVD 8,738
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
HDIL/ZDL/CNGR-CBL/CMI/GR/CCL

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
11"	8 5/8" IJ-55	28#	0	2,551		675		0	
7 7/8"	4 1/2" I-80	11.6#	0	8,828		1,747		690	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,153							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	6,610	8,721		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
6,610 8,721	0.36	187	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

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DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6770-8721	PUMP 6,703 BBLS SLICK H2O & 135,957 LBS 30/50 OTTAWA SAND
	PERF'D 8 STAGES; FRAC'D 7 STAGES

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PROD

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION — **INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
4/18/2012	4/19/2012	24		0	2,254	1,056	

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
20/64	0	6,819					0	2,254	1,056	PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,260
				BIRD'S NEST	1,579
				MAHOGANY	1,944
				WASATCH	4,418
				MESAVERDE	6,564

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 12 ¼" bit. The remainder of surface hole was drilled with an 11" bit. DQX csg was run from surface to 5026'; LTC csg was run from 5026' to 8828'. Attached is the chronological well history, perforation report & final survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) CARA MAHLER TITLE REGULATORY ANALYST

SIGNATURE DATE 6/6/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36B4BS RED		Spud Date: 1/10/2012	
Project: UTAH-UINTAH	Site: NBU 922-36B PAD		Rig Name No: ENSIGN 138/138, CAPSTAR 310/310
Event: DRILLING	Start Date: 11/21/2011		End Date: 2/12/2012
Active Datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/6/2012	12:00 - 0:00	12.00	MIRU	01	A	P		RIG DOWN FOR TRANSPORT TO VERNAL UTAH
1/7/2012	0:00 - 0:00	24.00	MIRU	01	A	P		TRANSPORT TO VERNAL UTAH
1/8/2012	0:00 - 18:00	18.00	MIRU	01	A	P		FINISH TRANSPORT TO NBU 922-36B PAD
	18:00 - 0:00	6.00	DRLSUR	01	B	P		START RIG UP. MOVE RIG TO NBU 922-36B4BS (WELL 1 OF 4 . INSTALL DIVERTOR HEAD AND BOUY LINE. BUILD DITCH. SPOT IN RIG. SPOT IN CATWALK AND PIPE RACKS. RIG UP PIT PUMP. RIG UP PUMP. PRIME PUMP. INSPECT RIG. HELD PRE-SPUD SAFETY MEETING.
1/9/2012	0:00 - 18:00	18.00	DRLSUR	01	B	P		FINISH RIG UP, WAIT ON EQUIPMENT
	18:00 - 0:00	6.00	DRLSUR	01	B	P		WELD ON RISER NIPPLE, ROTATING HEAD HOOK UP BLOCK
1/10/2012	0:00 - 1:30	1.50	DRLSUR	01	B	P		PU 12.25" BIT, MOTOR
	1:30 - 3:30	2.00	DRLSUR	08	B	Z		W.O. AIR TO PUMP #2 STAND PIPE PRESSURE FITTING
	3:30 - 4:30	1.00	DRLSUR	02	D	P		SPUD, DRILL T/ 75'
	4:30 - 7:00	2.50	DRLSUR	08	A	Z		WORK ON PUMP #2, SUCTION POD LEAK
	7:00 - 9:00	2.00	DRLSUR	02	D	P		DRILL F/75' T/210'
	9:00 - 9:30	0.50	DRLSUR	06	A	P		POOH, LD 12.25" BHA
	9:30 - 12:00	2.50	DRLSUR	06	A	P		PU, 11" BIT AND DIRECTIONAL TOOLS, TIH T/ 210'
	12:00 - 0:00	12.00	DRLSUR	02	D	P		DRILL F/210' T/1200'
1/11/2012	0:00 - 3:00	3.00	DRLSUR	02	D	P		DRILL F/ 1200' T/ 1388', WOB 15, RPM 45, ON/OFF BTM 1286/900, UP/DWN/ROT 110/82/91
	3:00 - 4:30	1.50	DRLSUR	06	A	S		POOH TO LD 5 JOINTS DRILL COLLARS DUE TO RIG MAX WEIGHT ISSUE
	4:30 - 7:00	2.50	DRLSUR	06	A	S		TIH AFTER LD COLLARS
	7:00 - 0:00	17.00	DRLSUR	02	D	P		DRILL F/ 1388' T/ 2560', TD. WOB 15, RPM 45, ON/OFF BTM 1317/900, UP/DWN/ROT 113/85/93. START 2 HR CIRC BEFORE POOH
1/12/2012	0:00 - 1:30	1.50	DRLSUR	05	C	P		CIRC PRIOR TO POOH
	1:30 - 6:00	4.50	DRLSUR	06	A	P		POOH, LDDS AND DIR TOOLS FOR CASING RUN
	6:00 - 8:30	2.50	DRLSUR	12	A	P		RIG UP TO RUN CSG. AND MOVE CSG INTO POSITION TO P/U.
	8:30 - 10:30	2.00	DRLSUR	12	C	P		RUN 58 JTS 8 5/8, 28# CSNG. LAND CSNG @ 10:30, SHOE SET @ 2536', BAFFLE SET @ 2501'
	10:30 - 12:00	1.50	DRLSUR	12	B	P		HOLD SAFETY MEETING, RIG UP CEMENT TRUCK, 2" HARD LINES,. CEMENT HEAD, LOAD PLUG.
	12:00 - 16:30	4.50	DRLSUR	12	E	P		PUMP 140 BBLS OF WATER AHEAD. PUMP 20 BBLS OF 8.3# GEL WATER AHEAD. PUMP (300 SX) 61.35 BBLS OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 2% CALC. DROP PLUG ON FLY. DISPLACE W/ 155.5 BBLS OF H20. NO CIRC THROUGH OUT. FINAL LIFT OF 700 PSI AT 5 BBL/MIN. BUMP PLUG W/700 PSI HELD FOR 5 MIN. FLOAT DID HOLD. PUMP (150 SX) 30.64 BBLS OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE. PUMP 2 ADDITIONAL TOP O OUTS. SHUT DOWN AND CLEAN TRUCK. NO CEMENT TO SURFACE.

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36B4BS RED		Spud Date: 1/10/2012
Project: UTAH-UINTAH	Site: NBU 922-36B PAD	Rig Name No: ENSIGN 138/138, CAPSTAR 310/310
Event: DRILLING	Start Date: 11/21/2011	End Date: 2/12/2012
Active Datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:30 - 17:30	1.00	DRLSUR	01	E	P		WELDER CUT OFF RISER
	17:30 - 0:00	6.50	DRLSUR	13	A	P		RIG DOWN, READY TO SKID TO NBU 922-36A1CS. WAIT ON CEMENT TOP OUT
2/4/2012	0:00 - 7:00	7.00	RDMO	01	E	P		RDRT ,PREP DERRICK & LAY OVER , UNSTRING BLOCKS , PREP DERRICK TO SPLIT, PICKEL PUMPS
	7:00 - 18:00	11.00	RDMO	08	A	Z		RIG REPAIR & MAINTANANCE, WORK ON MUD TANKS INSTALL NEW AGITATOR IN SUCTION TANK, FABRICATE & INSTALL NEW GUN LINE SUCTION VALVE FOR SHAKER TANK, GO THROUGH ALL GUN LINES & REPLACE JETS AND CLEAN OUT PLUGGED LINES, WORK ON SHAKERS & SHAKER SLIDES, CHANGE OUT ISOLATION VALVE FOR GUN LINE & TORNADOES, DERRICK WORK ,REPAIR SHEAVE CABLE SAFETY BAR ON CROWN,CUT & WELD STRING UP CABLE, REPAIR BROKEN STUD IN STAND PIPE GOOSE NECK SADDLE CLAMP AND REPLACE.
	18:00 - 0:00	6.00	RDMO	01	E	P		RDRT DERRICK, SUB, GAS BUSTER,FLARE LINES, ELECTRIC, STEAM, AIR, WATER TO SUB & BACK YARD BUILDINGS & MISC
2/5/2012	0:00 - 7:00	7.00	RDMO	01	E	P		RDRT, PITS, PUMPS, BACKYARD & MISC
	7:00 - 17:00	10.00	RDMO	01	E	P		LOAD OUT TRUCKS, MOVE RIG 1.5 MILES, SET IN RIG AND RIG UP, 3 HAUL TRUCKS, 4 BED TRUCKS, 2 FORKLIFTS, 2 TRUCK PUSHERS & 3 SWAMPERS ON LOCATION @ 07:00, TRUCKS RELEASED @ 17:30
	17:00 - 0:00	7.00	RDMO	01	B	P		RURT, STRING UP BLOCKS, R/U ELECTRICAL, PREP DERRICK , RAISE DERRICK @ 22:00 HRS, CENTER & LEVEL RIG ,R/U ELECTRICAL& SERVICE LOOP 50% RIGGED UP
2/6/2012	0:00 - 6:00	6.00	MIRU	01	B	P		RURT, LOWER RACKING BOARD, R/U AIR, FLOOR, RAISE GAS BUSTER, & MISC
	6:00 - 18:00	12.00	MIRU	01	B	P		RURT SET IN CAT WALK R/U MUD LINES, FLOWLINE, FLARE LINES, FLOOR, WIND WALLS, & MISC, LAY LINE BACKERS & RUN POWER TO CAMPS
	18:00 - 20:00	2.00	MIRU	01	B	P		RURT, PASON LINES, CAMERA LINES, GERONIMO, & MISC, SLIP ON DRILL LINE
	20:00 - 23:00	3.00	DRLPRO	14	A	P		NIPPLE UP & FUNCTION TEST BOP
	23:00 - 0:00	1.00	DRLPRO	15	A	P		S/M W/ A-1 TESTING, R/U & START TESTING BOP
2/7/2012	0:00 - 4:00	4.00	DRLPRO	15	A	P		TEST BOP, TEST FLOOR VALVES, TOP DRIVE VALVE, INSIDE & OUTSIDE, KILL LINE & CHOKE LINE VALVES, HCR VALVE, CHOKE MANIFOLD, PIPE & BLIND RAMS TO 250 PSI F/ 5 MIN, 5000 PSI F/ 10 MIN, ANNULAR TO 250 PSI F/ 5 MIN, 2500 PSI F/ 10 MIN, CASING TO 1500 PSI F/ 30 MIN, R/D TESTERS
	4:00 - 4:30	0.50	DRLPRO	14	B	P		INSTALL WEAR BUSHING
	4:30 - 9:30	5.00	DRLPRO	06	A	P		P/U FX 65 SECURITY BIT, .28 RPG/ 1.5 BEND SDI MOTOR, ORIENT MWD, BHA, & DP, TAG CMT @2448'
	9:30 - 10:30	1.00	DRLPRO	02	F	P		DRILL CEMENT, F.E. & OPEN HOLE F/ 2448' TO 2565' SPUD @ 09:30 2/7/2012

Operation Summary Report

Well: NBU 922-36B4BS RED		Spud Date: 1/10/2012
Project: UTAH-UINTAH	Site: NBU 922-36B PAD	Rig Name No: ENSIGN 138/138, CAPSTAR 310/310
Event: DRILLING	Start Date: 11/21/2011	End Date: 2/12/2012
Active Datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:30 - 14:00	3.50	DRLPRO	02	D	P		DRILL, SLIDE, SURVEY F/ 2565' TO 2921' 356' @ 101.7' HR, WOB 15-18, RPM 55/151, SPM 120, GPM 540, TORQ 8/4, ON/OFF 1740/1440, UP/SO/ROT 109/100/102 RUNNING CLOSED LOOP 100%,. WT 8.5 SLID .25 HR, 25' @ 100' HR
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DRILL, SLIDE, SURVEY F/ 2921' TO 3990' 1069' @ 112.5' HR, WOB 15-18, RPM 55/151, SPM 120, GPM 540, TORQ 9/5, ON/OFF 1900/1480, UP/SO ROT 125/110/115 RUNNING CLOSED LOOP 100%, WT 8.4 SLID 1.01 HRS, 156' @ 154.4' HR
2/8/2012	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL, SLIDE, SURVEY F/ 3990' TO 4623' 633' @ 105.5' HR, WOB 15-18, RPM 55/151, SPM 120, GPM 540, TORQ 9/5, ON/OFF 2000/1500, UP/SO/ROT 120/110/117 RUNNING CLOSED LOOP 100%, WT 8.4 SLID .17 HRS, 25' @ 150' HR
	6:00 - 16:00	10.00	DRLPRO	02	D	P		DRILL, SLIDE, SURVEY F/ 4623' TO 5726' 1103' @ 110.3' HR, WOB 18, RPM 55/151, SPM 120, GPM 540, TORQ 11/8, ON/OFF 2100/1575, UP/SO/ROT 145/133/134 RUNNING CLOSED LOOP 100%, WT 8.4 SLID .42 HRS, 60' @ 142.8' HR
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRILL, SLIDE, SURVEY, F/ 5726' TO 6388' 662' @ 88.2' HR, WOB 18-20, RPM 55, SPM 120, GPM 540, TORQ 12/9, ON/OFF 2200/1600, UP/SO/ROT 168/154/160 RUNNING CLOSED LOOP 100%, WT 8.4 SLID .33 HRS, 30' @ 90' HR
2/9/2012	0:00 - 10:00	10.00	DRLPRO	02	D	P		DRILL, SLIDE, SURVEY F/ 6388' TO 7119' 731' @ 73.1' HR, WOB 18-20, RPM 55/151, SPM 120, GPM 540, TORQ 12/8, ON/OFF 2440/1850, UP/SO/ROT 175/154/160 RUNNING CLOSED LOOP 100%, SHUT DOWN DEWATERING @ 7000', START MUD UP SLID 1.34 HRS, 75' @ 55.9' HR
	10:00 - 10:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	10:30 - 18:00	7.50	DRLPRO	02	D	P		DRILL, SLIDE, SURVEY F/ 7119' TO 7662' 543' @ 72.4' HR ,WOB 20, RPM 50/151, SPM 120, GPM 540, TORQ 12/9, ON/OFF 2700/2300, UP/SO/ROT 181/152/163 WT 10.6, VIS 38, RUNNING CENTRAFUGE 1.5 HRS EVERY 3 HRS
	18:00 - 20:30	2.50	DRLPRO	02	D	P		DRILL, SLIDE, SURVEY F/ 7662' TO 7778', HOLE SEEPING, PUMPING LCM SWEEPS
	20:30 - 21:00	0.50	DRLPRO	08	A	P		RIG REPAIR REPLACE FAN BELTS #2 GENERATOR
	21:00 - 0:00	3.00	DRLPRO	02	D	P		DRILL F/ 7778' TO 7945', 167' @ 55.6' HR, WOB 20-24, RPM 45/138, SPM 110, GPM 495, TORQ 14/8, ON/OFF 2600/2200, UP/SO/ROT 185/155/170, LOST 550 BBLS MUD TO SEEPAGE, WT 11.2, VIS 36, 10% LCM, SHAKERS BYPASSED SLID .42 HRS, 15' @ 35.7' HR

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36B4BS RED			Spud Date: 1/10/2012
Project: UTAH-UINTAH	Site: NBU 922-36B PAD		Rig Name No: ENSIGN 138/138, CAPSTAR 310/310
Event: DRILLING	Start Date: 11/21/2011		End Date: 2/12/2012
Active Datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/10/2012	0:00 - 9:00	9.00	DRLPRO	02	D	P		DRILL F/ 7945' TO 8342' ,397' @ 44.1 WOB 16/24, RPM 45,/138, SPM 110, GPM 495, TORQ 11/8, ON/OFF 2600/2200, UP/SO/ROT 185/160/170, WT 11.4, VIS 36, LCM 10% RUNNING CENTRA FUGE 1 1/2 HRS EVERY 3 HOURS
	9:00 - 9:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	9:30 - 18:00	8.50	DRLPRO	02	D	P		DRILL F/ 8342' TO 8730', 388' @ 45.6' HR WOB 16/24, RPM 45/52, SPM 110, GPM 495, TORQ 11/8, ON/OFF 2800/2260, UP/SO/ROT 192/170/179, WT 11.4, VIS 38, LCM 10% RUNNING CENTRAFUGE 1 1/2 HRS EVERY 3 HRS
	18:00 - 20:30	2.50	DRLPRO	02	D	P		DRILL F/ 8730' TO 8840' TD @ 20:30, 2/10/2012,, WOB 20/24, RPM 45/138, SPM 110, GPM 495, TORQ 12/9, ON/OFF 2800/2300, UP/SO/ROT 200/174/184 WT 11.4, VIS 38, LCM 10% RUNNING CENTRAFUGE 1 1/2 HRS EVERY 3 HRS
	20:30 - 22:00	1.50	DRLPRO	05	C	P		CIRC & COND F/ SHORT TRIP
	22:00 - 0:00	2.00	DRLPRO	06	E	P		SHORT TRIP TO SHOE, @ 7000'
2/11/2012	0:00 - 8:00	8.00	DRLPRO	06	E	P		SHORT TRIP, TO CASING SHOE, NO PROBLEMS
	8:00 - 10:00	2.00	DRLPRO	05	C	P		CIRC & COND, BOTTOMS UP 10' FLARE
	10:00 - 17:30	7.50	DRLPRO	06	A	P		TOOH L/D MWD, MOTOR, BIT
	17:30 - 22:00	4.50	DRLPRO	11	C	P		S/M W/ BAKER ATLAS, R/U & RUN TRIPLE COMBO LOGS TO 8820', NO PROBLEMS
	22:00 - 22:30	0.50	DRLPRO	14	B	P		PULL WEAR BUSHING
	22:30 - 23:30	1.00	DRLPRO	12	A	P		S/M W/ FRANKS WEST STATES & TUBULAR SOLUTIONS, R/U CASERS
	23:30 - 0:00	0.50	DRLPRO	12	C	P		RUN 4.5 PROD CASING
2/12/2012	0:00 - 8:00	8.00	DRLPRO	12	C	P		RUN 209 JTS 4.5, 11.6, 180, (91 JTS LTC & 118 JTS DQX) TO 8828', FLOAT 8782', MARKER 6541'
	8:00 - 9:30	1.50	DRLPRO	05	D	P		CIRC F/ CEMENT, 15' FLARE
	9:30 - 11:30	2.00	DRLPRO	21	E	P		CIRC & WAIT ON BJ SERVICES, ON LOC @ 09:00, STARTED PUMPING @ 11:30
	11:30 - 15:00	3.50	DRLPRO	12	E	P		S/M W/ BJ SERVICES, DROP TOP PLUG PUMP 25 BBL WATER SPACER, 419 SX ,12#, 2.26 YLD LEAD, 1328 SX, 14.3#, 1.31 YLD TAIL, DISPLACE W/ 136 BBLS CLAYCARE + 1 GAL MAGNACIDE WATER ,FINAL LIFT 2700 PSI, BUMP PLUG @ 3200 PSI F/ 5 MIN, FLOATS HELD, LOST PARTIAL RETURNS 60 BBLS INTO DISPLACEMENT, 12 BBLS LEAD CEMENT BACK TO PIT, EST TOP OF TAIL 3860, FLUSH STACK & FLOW LINES, R/D CEMENTERS
	15:00 - 15:30	0.50	DRLPRO	14	B	P		SET C-22 SLIPS @ 95K
	15:30 - 17:00	1.50	DRLPRO	14	A	P		PICKUP STACK CUT OFF CASING
	17:00 - 19:00	2.00	DRLPRO	01	E	P		R/D, CLEAN SUCTION PIT OUT W/ HYDRO VAC, PREP RIG TO SKID, RELEASE RIG @ 19:00 ,2/12/2012 TO NBU N922-36A1CS

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-36B4BS RED	**Wellbore No.**	OH
Well Name	NBU 922-36B4BS	**Wellbore Name**	NBU 922-36B4BS
Report No.	1	**Report Date**	4/4/2012
Project	UTAH-UINTAH	**Site**	NBU 922-36B PAD
Rig Name/No.		**Event**	COMPLETION
Start Date	4/16/2012	**End Date**	4/18/2012
Spud Date	1/10/2012	**Active Datum**	RKB @5,029.00usft (above Mean Sea Level)
UWI	NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

1.3 General

Contractor		**Job Method**	PERFORATE	**Supervisor**	
Perforated Assembly	PRODUCTION CASING	**Conveyed Method**	WIRELINE		

1.4 Initial Conditions

Fluid Type	KCL WATER	**Fluid Density**	
Surface Press		**Estimate Res Press**	
TVD Fluid Top		**Fluid Head**	
Hydrostatic Press		**Press Difference**	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	6,610.0 (usft)-6,721.0 (usft	**Start Date/Time**	4/9/2012 12:00AM
No. of Intervals	28	**End Date/Time**	4/9/2012 12:00AM
Total Shots	190	**Net Perforation Interval**	48.00 (usft)
Avg Shot Density	3.96 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/9/2012 12:00AM	MESAVERDE/			6,610.0	6,612.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/9/2012 12:00AM	MESAVERDE/			6,686.0	6,688.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			6,713.0	6,715.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			6,770.0	6,772.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			6,804.0	6,806.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			6,875.0	6,877.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			6,938.0	6,940.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			6,967.0	6,969.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			7,070.0	7,072.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			7,280.0	7,282.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			7,334.0	7,336.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			7,404.0	7,406.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			7,587.0	7,589.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			7,635.0	7,637.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			7,741.0	7,743.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			7,886.0	7,888.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,027.0	8,029.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,095.0	8,097.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,176.0	8,177.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,192.0	8,193.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,252.0	8,253.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,276.0	8,277.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/9/2012 12:00AM	MESAVERDE/			8,318.0	8,319.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,331.0	8,332.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,532.0	8,533.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,562.0	8,563.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,602.0	8,604.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/9/2012 12:00AM	MESAVERDE/			8,719.0	8,721.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36B4BS RED		Spud Date: 1/10/2012	
Project: UTAH-UINTAH	Site: NBU 922-36B PAD		Rig Name No: SWABBCO 6/6, SWABBCO 6/6
Event: COMPLETION	Start Date: 4/16/2012		End Date: 4/18/2012
Active Datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/14/2012	-							
4/4/2012	6:45 - 8:30	1.75	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 03 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 37 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 80 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWIFW
4/5/2012	8:00 - 14:00	6.00	COMP	37	B	P		HSM, MOVING R/U P/U RIH W/ 3-1/8 EXPEND, 23 GRM, 0.36" HOLE, PERF MESAVERDE AS PER SAY IN DESIGN SWIFN
4/9/2012	6:00 - 10:30	4.50	COMP	48		P		HSM, PINCH POINTS, MIRU PRESSURE TEST SURFACE LINES TO 8,500#, OPEN WELL

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36B4BS RED			Spud Date: 1/10/2012
Project: UTAH-UINTAH	Site: NBU 922-36B PAD		Rig Name No: SWABBCO 6/6, SWABBCO 6/6
Event: COMPLETION	Start Date: 4/16/2012		End Date: 4/18/2012
Active Datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:30 - 17:00	6.50	COMP	36	B	P		PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLIUD, SAND AND CHEMICL VOLUME PUM'D FRAC STG #1] WHP=1,550#, BRK DN PERFS=3,992#, @=4.7 BPM, INJ RT=39.5, INJ PSI=5,933#, INITIAL ISIP=2,338#, INITIAL FG=.71, FINAL ISIP=2,614#, FINAL FG=.74, AVERAGE RATE=50.7, AVERAGE PRESSURE=4,645#, MAX RATE=51.1, MAX PRESSURE=6,115#, NET PRESSURE INCREASE=276#, 14/22 62% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,362', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #2] WHP=2,245#, BRK DN PERFS=4,726#, @=4.9 BPM, INJ RT=50.5, INJ PSI=5,182#, INITIAL ISIP=2,403#, INITIAL FG=.73, FINAL ISIP=2,568#, FINAL FG=.75, AVERAGE RATE=50.8, AVERAGE PRESSURE=4,856#, MAX RATE=51.9, MAX PRESSURE=6,598#, NET PRESSURE INCREASE=165#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,127', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #3] WHP=1,207#, BRK DN PERFS=4,445#, @=4.8 BPM, INJ RT=50.9, INJ PSI=3,992#, INITIAL ISIP=1,818#, INITIAL FG=.67, FINAL ISIP=2,164#, FINAL FG=.71, AVERAGE RATE=50.9, AVERAGE PRESSURE=4,055#, MAX RATE=51.2, MAX PRESSURE=5,024#, NET PRESSURE INCREASE=346#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @7,773', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW SWIFN
4/10/2012	6:30 - 6:45	0.25	COMP	48		P		HSM, SLIPS / TRIPS & FALLS

Operation Summary Report

Well: NBU 922-36B4BS RED		Spud Date: 1/10/2012	
Project: UTAH-UINTAH	Site: NBU 922-36B PAD		Rig Name No: SWABBCO 6/6, SWABBCO 6/6
Event: COMPLETION	Start Date: 4/16/2012		End Date: 4/18/2012
Active Datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:45 - 6:45	0.00	COMP	36	B	P		FRAC STG #4] WHP=1,410#, BRK DN PERFS=4,729#, @=4.6 BPM, INJ RT=50.9, INJ PSI=4,216#, INITIAL ISIP=1,818#, INITIAL FG=.67, FINAL ISIP=2,111#, FINAL FG=.71, AVERAGE RATE=50.9, AVERAGE PRESSURE=4,089#, MAX RATE=51.1, MAX PRESSURE=4,730#, NET PRESSURE INCREASE=436#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,436', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #5] WHP=2,340#, BRK DN PERFS=5,278#, @=4.8 BPM, INJ RT=50.7, INJ PSI=4,371#, INITIAL ISIP=1,852#, INITIAL FG=.69, FINAL ISIP=2,357#, FINAL FG=.76, AVERAGE RATE=50.7, AVERAGE PRESSURE=4,348#, MAX RATE=51, MAX PRESSURE=6,696#, NET PRESSURE INCREASE=505#, 24/24 1005 CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,102', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #6] WHP=685#, BRK DN PERFS=4,008#, @=4.7 BPM, INJ RT=51, INJ PSI=3,860#, INITIAL ISIP=1,000#, INITIAL FG=.58, FINAL ISIP=1,994#, FINAL FG=.72, AVERAGE RATE=50.8, AVERAGE PRESSURE=4,028#, MAX RATE=51.2, MAX PRESSURE=4,579#, NET PRESSURE INCREASE=994#, 22/24 91% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6,907', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG #7] WHP=652#, BRK DN PERFS=2,819#, @=4.4 BPM, INJ RT=53, INJ PSI=3,662#, INITIAL ISIP=980#, INITIAL FG=.58, FINAL ISIP=1,779#, FINAL FG=70., AVERAGE RATE=52.9, AVERAGE PRESSURE=3,755#, MAX RATE=53.1, MAX PRESSURE=4,666#, NET PRESSURE INCREASE=799#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6,745', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36B4BS RED			Spud Date: 1/10/2012
Project: UTAH-UINTAH	Site: NBU 922-36B PAD		Rig Name No: SWABBCO 6/6, SWABBCO 6/6
Event: COMPLETION	Start Date: 4/16/2012		End Date: 4/18/2012
Active Datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								WELL WENT ON A VACCUME. SWIFN.
4/16/2012	7:00 - 7:15	0.25	COMP	48		P		JSA= CEMENTING
	7:15 - 17:00	9.75	COMP	30		P		RD RIG ON NBU 922-36A1CS MOVE RU ON NBU 922-36B4BS ND WELLHEAD NU BOPS RU FLOOR & TUBING EQUIP PU NOTCHED COLLAR TALLY & PU TUB RIH TAG @ 6730' PU TO 6615' RU SUPERIOR PUMP 10 BBLS AHEAD MIX & PUMP 36 BBLS "G" CEM DISPLACE CEM W/ 13 OF 24 BBLS OF FRESH PRESS UP TO 1200 PSI SD PUH 5 JNTS EOT @ 6457' REV CIRC W/ FRESH CIRC 13 BBLS CEM OUT 10 ADD BBLS POOH W/ TUBING SIW SDFN (PREP TO RIH W/ BIT DRILL CEM IN AM)
4/17/2012	7:00 - 7:15	0.25	COMP	48		P		JSA= DRILLING CEMENT
	7:15 - 17:00	9.75	COMP	30		P		PU 3-7/8" BIT RIH TAG TOC @ 6457' RU DRILLING EQUIP EST REV CIRC DRILL THRU CEM TO 6720' CIRC CLEAN TEST SQUEEZE TO 1200# RD DRILLING EQUIP POOH LD BHA PU 3-7/8" BIT W/ POBS PKG RIH TO 6710' RU DRILLING EQUIP PREP TO DRILL PLUGS SIW SDFN
4/18/2012	7:00 - 7:15	0.25	COMP	48		P		JSA= PRESS CONTROL

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Event: COMPLETION	Start Date: 4/16/2012		End Date: 4/18/2012
Active Datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	COMP	30		P		SIWP=0 PSI EST CIRC TEST BOPS TO 1000# DRILL THRU 1ST PLUG PLUG #1] DRILL THRU HALLI 8K CBP @ 6745' IN 8 MIN W/ 0 INCREASE PLUG #2] CONTINUE TO RIH TAG SAND @ 6887 (20' FILL) C/O & DRILL THRU HALLI 8K CBP @ 6907' IN 9 MIN W/ 0 INCREASE PLUG #3] CONTINUE TO RIH TAG SAND @ 7057' (45' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7102' IN 5 MIN W/ 50# INCREASE PLUG #4] CONTINUE TO RIH TAG SAND @ 7416' (20' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7436' IN 7 MIN W/ 50# INCREASE PLUG #5] CONTINUE TO RIH TAG SAND @ 7753' (20' FILL) C/O & DRILL THRU HALLI 8K CBP @ 7773' IN 5 MIN W/ 100# INCREASE PLUG #6] CONTINUE TO RIH TAG SAND @ 8097' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8127' IN 5 MIN W/ 100# INCREASE PLUG #7] CONTINUE TO RIH TAG SAND @ 8337' (25' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8362' IN 7 MIN W/ 100# INCREASE PBTD] CONTINUE TO RIH TAG SAND @ 8743' (40' FILL) C/O TO PBTD @ 8783' CIRC CLEAN PUH LD 20 JNTS LAND TUBING ON HNGR W/ 257 JNTS 2-3/8" L-80 EOT @ 8152.92' RD DRILLING EQUIP RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD DROP BALL PUMP OFF BIT @ 800 PSI SIW NU & TEST FLOW LINE TURN WELL OVER TO FBC RD RIG MOVE RU ON 36B1CS TUBING DETAIL K.B.....14.00' HANGER.....86' 257 JNTS 2-3/8" L-80.....8135.86' POBS.....2.20' EOT @.....8152.92' TOTAL FLUID PUMPED= 6703 BBLS RIG RES= 2300 BBLS LEFT TO REC= 4403 BBLS TOTAL SAND 135,957# CTAP DEL = 283 JNTS RIG USED= 257 JNTS RETURNED= 26 JNTS

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36B4BS RED		Spud Date: 1/10/2012	
Project: UTAH-UINTAH	Site: NBU 922-36B PAD		Rig Name No: SWABBCO 6/6, SWABBCO 6/6
Event: COMPLETION	Start Date: 4/16/2012		End Date: 4/18/2012
Active Datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:30 -		COMP	50				WELL TURNED TO SALES @ 14:30 HR ON 4/18/2012-1000 MCFD, 1680 BWPD, FCP 1600#, FTP 1400#, 20/64"
4/19/2012	7:00 -			50				WELL IP'D ON 4/19/2012 - 1626 MCFD, 0 BOPD, 480 BWPD, CP 1899#, FTP 1250#, CK 20/64, LP 115#, 24 HRS
	-							
4/20/2012	-							

Scientific Drilling
Rocky Mountain Operations

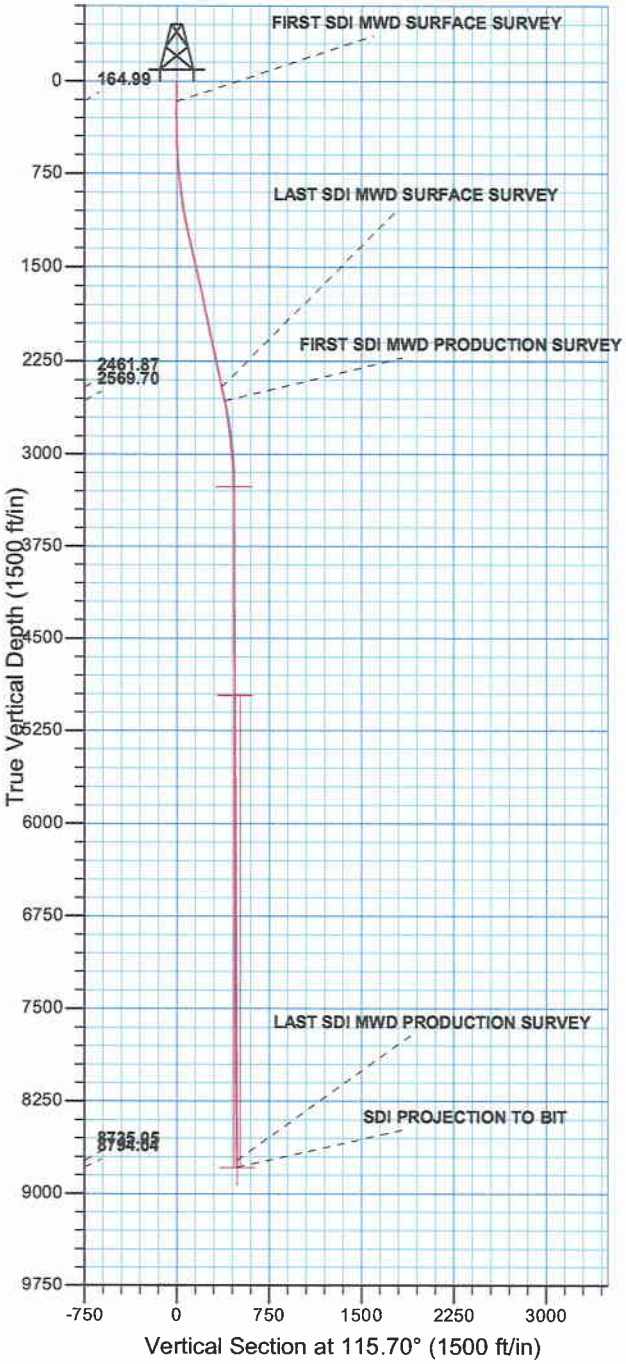
Project: Uintah County, UT UTM12
Site: NBU 922-36B PAD
Well: NBU 922-36B4BS
Wellbore: OH
Design: OH

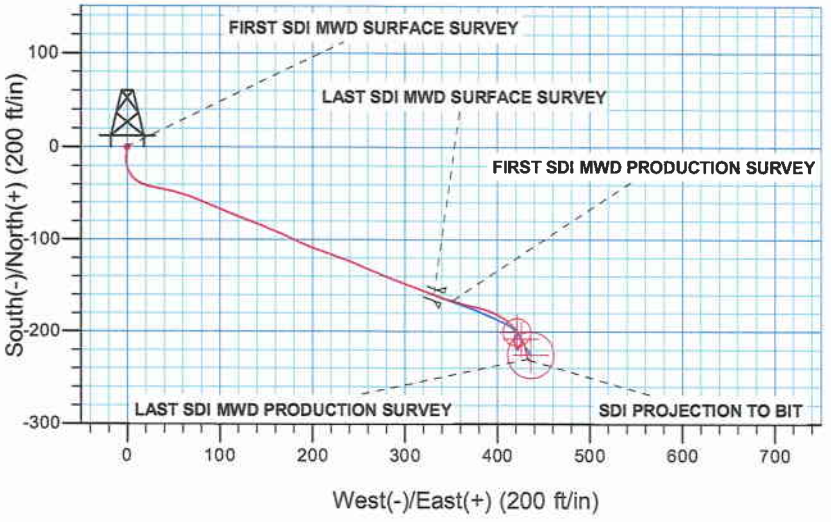
Anadarko Petroleum Corporation

WELL DETAILS: NBU 922-36B4BS					
GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14529381.99	2092367.27	39.997930	-109.386313

Azimuths to True North
Magnetic North: 11.07°

Magnetic Field
Strength: 52377.4snT
Dip Angle: 65.90°
Date: 02/10/2011
Model: IGRF2010





PROJECT DETAILS: Uintah County, UT UTM12	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 - Western US
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SECTION 36 T9S R22E
System Datum:	Mean Sea Level

Design: OH (NBU 922-36B4BS/OH)

Created By: Gabe Kendall Date: 15:08, March 14 2012

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 922-36B PAD
NBU 922-36B4BS

OH

Design: OH

Standard Survey Report

14 March, 2012

Anadarko
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Site:	NBU 922-36B PAD	**MD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Well:	NBU 922-36B4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Project Uintah County, UT UTM12

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 922-36B PAD, SECTION 36 T9S R22E

Site Position:		**Northing:**	14,529,382.00 usft	**Latitude:**	39.997930
From:	Lat/Long	**Easting:**	2,092,367.27 usft	**Longitude:**	-109.386313
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.04 °

Well NBU 922-36B4BS, 682 FNL 2264 FEL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,529,382.00 usft	**Latitude:**	39.997930
	+E/-W	0.00 ft	**Easting:**	2,092,367.27 usft	**Longitude:**	-109.386313
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,015.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	02/10/11	11.07	65.90	52,377

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	115.70

Survey Program **Date** 03/14/12

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
10.00	2,500.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1
2,610.00	8,840.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Vertical Section (ft)**	**Dogleg Rate (°/100ft)**	**Build Rate (°/100ft)**	**Turn Rate (°/100ft)**
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00
165.00	0.88	295.37	164.99	0.51	-1.08	-1.19	0.57	0.57	0.00
FIRST SDI MWD SURFACE SURVEY									
255.00	0.26	148.33	254.99	0.63	-1.59	-1.71	1.23	-0.69	-163.38
345.00	2.11	166.52	344.97	-1.15	-1.10	-0.49	2.07	2.06	20.21
436.00	3.34	181.64	435.86	-5.43	-0.78	1.65	1.55	1.35	16.62
526.00	4.22	188.93	525.67	-11.32	-1.37	3.67	1.11	0.98	8.10
619.00	5.96	164.30	618.31	-19.35	-0.60	7.85	2.96	1.87	-26.48
713.00	6.57	147.95	711.75	-28.61	3.58	15.63	2.00	0.65	-17.39

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Site:	NBU 922-36B PAD	**MD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Well:	NBU 922-36B4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
807.00	6.07	123.28	805.20	-35.90	10.59	25.11	2.91	-0.53	-26.24
901.00	6.95	106.14	898.60	-40.21	20.21	35.64	2.26	0.94	-18.23
996.00	8.97	101.13	992.68	-43.23	32.99	48.48	2.25	2.13	-5.27
1,090.00	10.99	104.38	1,085.26	-46.87	48.87	64.36	2.23	2.15	3.46
1,183.00	12.34	110.57	1,176.34	-52.57	66.76	82.95	1.98	1.45	6.66
1,276.00	12.91	113.45	1,267.09	-60.19	85.59	103.23	0.91	0.61	3.10
1,379.00	12.57	112.56	1,367.55	-69.07	106.50	125.92	0.38	-0.33	-0.86
1,474.00	13.34	111.60	1,460.13	-77.07	126.24	147.17	0.84	0.81	-1.01
1,569.00	13.50	110.99	1,552.54	-85.08	146.78	169.15	0.22	0.17	-0.64
1,665.00	13.54	115.37	1,645.88	-93.91	167.40	191.56	1.07	0.04	4.56
1,760.00	12.43	114.86	1,738.45	-102.97	186.72	212.91	1.17	-1.17	-0.54
1,853.00	11.96	110.18	1,829.36	-110.50	204.85	232.51	1.18	-0.51	-5.03
1,948.00	11.96	107.81	1,922.29	-116.91	223.46	252.05	0.52	0.00	-2.49
2,043.00	11.78	113.96	2,015.27	-123.86	241.69	271.50	1.34	-0.19	6.47
2,136.00	11.94	112.79	2,106.28	-131.44	259.24	290.59	0.31	0.17	-1.26
2,230.00	12.57	110.47	2,198.14	-138.79	277.79	310.49	0.85	0.67	-2.47
2,327.00	12.46	111.64	2,292.83	-146.34	297.40	331.44	0.28	-0.11	1.21
2,422.00	12.22	111.24	2,385.64	-153.76	316.30	351.69	0.27	-0.25	-0.42
2,500.00	12.22	110.45	2,461.87	-159.63	331.73	368.14	0.21	0.00	-1.01
LAST SDI MWD SURFACE SURVEY									
2,610.00	10.57	106.69	2,569.70	-166.60	352.30	389.70	1.64	-1.50	-3.42
FIRST SDI MWD PRODUCTION SURVEY									
2,673.00	9.90	102.65	2,631.70	-169.44	363.12	400.68	1.56	-1.06	-6.41
2,768.00	8.39	104.19	2,725.49	-172.93	377.81	415.43	1.61	-1.59	1.62
2,862.00	7.85	110.88	2,818.55	-176.90	390.46	428.55	1.16	-0.57	7.12
2,957.00	6.91	118.51	2,912.76	-181.94	401.54	440.72	1.43	-0.99	8.03
3,051.00	5.63	126.78	3,006.20	-187.40	410.20	450.89	1.66	-1.36	8.80
3,146.00	3.57	134.85	3,100.89	-192.28	416.03	458.26	2.27	-2.17	8.49
3,240.00	2.91	141.09	3,194.74	-196.20	419.61	463.18	0.80	-0.70	6.64
3,335.00	1.98	140.17	3,289.65	-199.33	422.17	466.85	0.98	-0.98	-0.97
3,429.00	0.50	157.24	3,383.63	-200.96	423.37	468.64	1.61	-1.57	18.16
3,524.00	0.70	258.20	3,478.63	-201.46	422.96	468.49	0.98	0.21	106.27
3,618.00	1.05	232.56	3,572.61	-202.10	421.72	467.64	0.55	0.37	-27.28
3,713.00	0.55	324.16	3,667.61	-202.26	420.76	466.85	1.26	-0.53	96.42
3,807.00	0.35	230.58	3,761.61	-202.08	420.27	466.33	0.71	-0.21	-99.55
3,902.00	1.32	196.23	3,856.59	-203.31	419.74	466.39	1.11	1.02	-36.16
3,997.00	0.77	119.47	3,951.58	-204.68	419.99	467.21	1.44	-0.58	-80.80
4,091.00	0.85	136.47	4,045.57	-205.49	421.02	468.49	0.27	0.09	18.09
4,186.00	0.54	334.23	4,140.57	-205.60	421.31	468.80	1.45	-0.33	-170.78
4,280.00	0.53	302.13	4,234.57	-204.97	420.75	468.02	0.31	-0.01	-34.15
4,375.00	0.53	247.55	4,329.56	-204.91	419.97	467.29	0.51	0.00	-57.45
4,469.00	0.79	220.04	4,423.56	-205.57	419.16	466.84	0.43	0.28	-29.27
4,564.00	0.79	213.09	4,518.55	-206.62	418.38	466.59	0.10	0.00	-7.32

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Well:	NBU 922-36B4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,658.00	0.97	177.94	4,612.54	-207.96	418.05	466.88	0.59	0.19	-37.39
4,753.00	1.49	156.14	4,707.52	-209.89	418.58	468.19	0.73	0.55	-22.95
4,847.00	1.41	166.69	4,801.49	-212.13	419.34	469.85	0.30	-0.09	11.22
4,942.00	1.41	172.93	4,896.46	-214.43	419.75	471.22	0.16	0.00	6.57
5,036.00	1.71	172.57	4,990.42	-216.97	420.08	472.61	0.32	0.32	-0.38
5,131.00	0.77	110.21	5,085.40	-218.59	420.86	474.02	1.59	-0.99	-65.64
5,225.00	0.79	117.56	5,179.39	-219.11	422.03	475.30	0.11	0.02	7.82
5,320.00	1.14	15.16	5,274.39	-218.50	422.85	475.78	1.60	0.37	-107.79
5,415.00	1.06	9.36	5,369.37	-216.72	423.24	475.36	0.14	-0.08	-6.11
5,509.00	0.70	18.77	5,463.36	-215.32	423.57	475.05	0.41	-0.38	10.01
5,604.00	0.35	62.10	5,558.35	-214.64	424.01	475.15	0.53	-0.37	45.61
5,698.00	0.26	112.20	5,652.35	-214.58	424.47	475.53	0.29	-0.10	53.30
5,793.00	0.50	149.40	5,747.35	-215.02	424.88	476.09	0.35	0.25	39.16
5,888.00	0.96	15.23	5,842.35	-214.61	425.30	476.29	1.43	0.48	-141.23
5,982.00	0.97	8.31	5,936.33	-213.06	425.62	475.91	0.12	0.01	-7.36
6,077.00	0.79	16.48	6,031.32	-211.64	425.92	475.57	0.23	-0.19	8.60
6,171.00	0.44	23.03	6,125.32	-210.69	426.24	475.45	0.38	-0.37	6.97
6,266.00	0.36	62.70	6,220.31	-210.21	426.65	475.61	0.30	-0.08	41.76
6,361.00	0.35	87.85	6,315.31	-210.07	427.21	476.04	0.16	-0.01	26.47
6,455.00	0.35	119.62	6,409.31	-210.20	427.74	476.58	0.20	0.00	33.80
6,550.00	0.49	136.94	6,504.31	-210.64	428.27	477.25	0.20	0.15	18.23
6,644.00	0.70	145.59	6,598.30	-211.40	428.87	478.12	0.24	0.22	9.20
6,739.00	0.59	271.45	6,693.30	-211.87	428.71	478.18	1.21	-0.12	132.48
6,834.00	1.41	321.73	6,788.29	-210.94	427.50	476.69	1.19	0.86	52.93
6,928.00	1.23	319.09	6,882.26	-209.27	426.12	474.72	0.20	-0.19	-2.81
7,023.00	0.55	40.05	6,977.25	-208.15	425.75	473.90	1.33	-0.72	85.22
7,117.00	0.35	76.34	7,071.25	-207.74	426.32	474.23	0.36	-0.21	38.61
7,212.00	0.26	132.15	7,166.25	-207.81	426.76	474.66	0.31	-0.09	58.75
7,306.00	0.26	172.05	7,260.25	-208.17	426.95	474.99	0.19	0.00	42.45
7,400.00	0.53	163.52	7,354.24	-208.80	427.10	475.40	0.29	0.29	-9.07
7,495.00	0.79	152.98	7,449.24	-209.80	427.52	476.21	0.30	0.27	-11.09
7,589.00	1.06	154.38	7,543.23	-211.16	428.19	477.41	0.29	0.29	1.49
7,684.00	1.17	160.85	7,638.21	-212.87	428.89	478.78	0.18	0.12	6.81
7,778.00	0.49	125.27	7,732.20	-214.01	429.53	479.85	0.87	-0.72	-37.85
7,873.00	0.47	156.68	7,827.19	-214.60	430.02	480.54	0.27	-0.02	33.06
7,968.00	0.60	166.82	7,922.19	-215.44	430.29	481.15	0.17	0.14	10.67
8,062.00	0.77	168.95	8,016.18	-216.54	430.52	481.84	0.18	0.18	2.27
8,157.00	0.79	183.65	8,111.17	-217.82	430.60	482.46	0.21	0.02	15.47
8,251.00	0.88	176.62	8,205.16	-219.19	430.60	483.06	0.14	0.10	-7.48
8,440.00	1.43	165.81	8,394.13	-222.93	431.27	485.28	0.31	0.29	-5.72
8,535.00	1.32	159.83	8,489.10	-225.10	431.93	486.82	0.19	-0.12	-6.29
8,629.00	1.06	174.42	8,583.08	-226.98	432.39	488.05	0.42	-0.28	15.52
8,724.00	1.04	153.44	8,678.06	-228.63	432.86	489.19	0.40	-0.02	-22.08
8,781.00	1.32	141.46	8,735.05	-229.61	433.50	490.19	0.65	0.49	-21.02

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Site:	NBU 922-36B PAD	**MD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Well:	NBU 922-36B4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
LAST SDI MWD PRODUCTION SURVEY									
8,840.00	1.32	141.46	8,794.04	-230.67	434.35	491.41	0.00	0.00	0.00
SDI PROJECTION TO BIT									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
165.00	164.99	0.51	-1.08	FIRST SDI MWD SURFACE SURVEY
2,500.00	2,461.87	-159.63	331.73	LAST SDI MWD SURFACE SURVEY
2,610.00	2,569.70	-166.60	352.30	FIRST SDI MWD PRODUCTION SURVEY
8,781.00	8,735.05	-229.61	433.50	LAST SDI MWD PRODUCTION SURVEY
8,840.00	8,794.04	-230.67	434.35	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 922-36B PAD
NBU 922-36B4BS

OH

Design: OH

Survey Report - Geographic

14 March, 2012

Anadarko
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Site:	NBU 922-36B PAD	**MD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Well:	NBU 922-36B4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Project Uintah County, UT UTM12

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 922-36B PAD, SECTION 36 T9S R22E

Site Position:		**Northing:**	14,529,382.00 usft	**Latitude:**	39.997930
From:	Lat/Long	**Easting:**	2,092,367.27 usft	**Longitude:**	-109.386313
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.04 °

Well NBU 922-36B4BS, 682 FNL 2264 FEL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,529,382.00 usft	**Latitude:**	39.997930
	+E/-W	0.00 ft	**Easting:**	2,092,367.27 usft	**Longitude:**	-109.386313
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,015.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/11	11.07	65.90	52,377

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	115.70

Survey Program **Date** 03/14/12

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
10.00	2,500.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1
2,610.00	8,840.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,529,382.00	2,092,367.27	39.997930	-109.386313
10.00	0.00	0.00	10.00	0.00	0.00	14,529,382.00	2,092,367.27	39.997930	-109.386313
165.00	0.88	295.37	164.99	0.51	-1.08	14,529,382.49	2,092,366.18	39.997932	-109.386317
FIRST SDI MWD SURFACE SURVEY									
255.00	0.26	148.33	254.99	0.63	-1.59	14,529,382.60	2,092,365.66	39.997932	-109.386319
345.00	2.11	166.52	344.97	-1.15	-1.10	14,529,380.82	2,092,366.19	39.997927	-109.386317
436.00	3.34	181.64	435.86	-5.43	-0.78	14,529,376.55	2,092,366.58	39.997915	-109.386316
526.00	4.22	188.93	525.67	-11.32	-1.37	14,529,370.65	2,092,366.10	39.997899	-109.386318
619.00	5.96	164.30	618.31	-19.35	-0.60	14,529,362.64	2,092,367.02	39.997877	-109.386315
713.00	6.57	147.95	711.75	-28.61	3.58	14,529,353.46	2,092,371.36	39.997852	-109.386301
807.00	6.07	123.28	805.20	-35.90	10.59	14,529,346.30	2,092,378.50	39.997832	-109.386275

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Site:	NBU 922-36B PAD	**MD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Well:	NBU 922-36B4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
901.00	6.95	106.14	898.60	-40.21	20.21	14,529,342.16	2,092,388.20	39.997820	-109.386241
996.00	8.97	101.13	992.68	-43.23	32.99	14,529,339.37	2,092,401.04	39.997811	-109.386195
1,090.00	10.99	104.38	1,085.26	-46.87	48.87	14,529,336.02	2,092,416.97	39.997801	-109.386139
1,183.00	12.34	110.57	1,176.34	-52.57	66.76	14,529,330.65	2,092,434.97	39.997786	-109.386075
1,276.00	12.91	113.45	1,267.09	-60.19	85.59	14,529,323.36	2,092,453.94	39.997765	-109.386008
1,379.00	12.57	112.56	1,367.55	-69.07	106.50	14,529,314.86	2,092,475.00	39.997740	-109.385933
1,474.00	13.34	111.60	1,460.13	-77.07	126.24	14,529,307.22	2,092,494.88	39.997718	-109.385863
1,569.00	13.50	110.99	1,552.54	-85.08	146.78	14,529,299.59	2,092,515.56	39.997697	-109.385789
1,665.00	13.54	115.37	1,645.88	-93.91	167.40	14,529,291.13	2,092,536.34	39.997672	-109.385716
1,760.00	12.43	114.86	1,738.45	-102.97	186.72	14,529,282.42	2,092,555.82	39.997647	-109.385647
1,853.00	11.96	110.18	1,829.36	-110.50	204.85	14,529,275.22	2,092,574.08	39.997627	-109.385582
1,948.00	11.96	107.81	1,922.29	-116.91	223.46	14,529,269.15	2,092,592.81	39.997609	-109.385516
2,043.00	11.78	113.96	2,015.27	-123.86	241.69	14,529,262.53	2,092,611.16	39.997590	-109.385450
2,136.00	11.94	112.79	2,106.28	-131.44	259.24	14,529,255.27	2,092,628.84	39.997569	-109.385388
2,230.00	12.57	110.47	2,198.14	-138.79	277.79	14,529,248.26	2,092,647.52	39.997549	-109.385322
2,327.00	12.46	111.64	2,292.83	-146.34	297.40	14,529,241.07	2,092,667.27	39.997528	-109.385252
2,422.00	12.22	111.24	2,385.64	-153.76	316.30	14,529,233.99	2,092,686.30	39.997508	-109.385184
2,500.00	12.22	110.45	2,461.87	-159.63	331.73	14,529,228.40	2,092,701.83	39.997492	-109.385129
LAST SDI MWD SURFACE SURVEY									
2,610.00	10.57	106.69	2,569.70	-166.60	352.30	14,529,221.81	2,092,722.53	39.997473	-109.385056
FIRST SDI MWD PRODUCTION SURVEY									
2,673.00	9.90	102.65	2,631.70	-169.44	363.12	14,529,219.16	2,092,733.39	39.997465	-109.385017
2,768.00	8.39	104.19	2,725.49	-172.93	377.81	14,529,215.94	2,092,748.14	39.997455	-109.384965
2,862.00	7.85	110.88	2,818.55	-176.90	390.46	14,529,212.20	2,092,760.86	39.997444	-109.384919
2,957.00	6.91	118.51	2,912.76	-181.94	401.54	14,529,207.36	2,092,772.03	39.997431	-109.384880
3,051.00	5.63	126.78	3,006.20	-187.40	410.20	14,529,202.05	2,092,780.79	39.997416	-109.384849
3,146.00	3.57	134.85	3,100.89	-192.28	416.03	14,529,197.28	2,092,786.71	39.997402	-109.384828
3,240.00	2.91	141.09	3,194.74	-196.20	419.61	14,529,193.43	2,092,790.35	39.997391	-109.384815
3,335.00	1.98	140.17	3,289.65	-199.33	422.17	14,529,190.34	2,092,792.98	39.997383	-109.384806
3,429.00	0.50	157.24	3,383.63	-200.96	423.37	14,529,188.74	2,092,794.21	39.997378	-109.384802
3,524.00	0.70	258.20	3,478.63	-201.46	422.96	14,529,188.23	2,092,793.81	39.997377	-109.384803
3,618.00	1.05	232.56	3,572.61	-202.10	421.72	14,529,187.56	2,092,792.57	39.997375	-109.384808
3,713.00	0.55	324.16	3,667.61	-202.26	420.76	14,529,187.39	2,092,791.62	39.997375	-109.384811
3,807.00	0.35	230.58	3,761.61	-202.08	420.27	14,529,187.56	2,092,791.13	39.997375	-109.384813
3,902.00	1.32	196.23	3,856.59	-203.31	419.74	14,529,186.32	2,092,790.62	39.997372	-109.384815
3,997.00	0.77	119.47	3,951.58	-204.68	419.99	14,529,184.96	2,092,790.90	39.997368	-109.384814
4,091.00	0.85	136.47	4,045.57	-205.49	421.02	14,529,184.16	2,092,791.94	39.997366	-109.384810
4,186.00	0.54	334.23	4,140.57	-205.60	421.31	14,529,184.06	2,092,792.23	39.997366	-109.384809
4,280.00	0.53	302.13	4,234.57	-204.97	420.75	14,529,184.68	2,092,791.66	39.997367	-109.384811
4,375.00	0.53	247.55	4,329.56	-204.91	419.97	14,529,184.73	2,092,790.88	39.997368	-109.384814
4,469.00	0.79	220.04	4,423.56	-205.57	419.16	14,529,184.05	2,092,790.07	39.997366	-109.384817
4,564.00	0.79	213.09	4,518.55	-206.62	418.38	14,529,182.99	2,092,789.31	39.997363	-109.384820
4,658.00	0.97	177.94	4,612.54	-207.96	418.05	14,529,181.64	2,092,789.01	39.997359	-109.384821
4,753.00	1.49	156.14	4,707.52	-209.89	418.58	14,529,179.72	2,092,789.58	39.997354	-109.384819
4,847.00	1.41	166.69	4,801.49	-212.13	419.34	14,529,177.49	2,092,790.38	39.997348	-109.384816
4,942.00	1.41	172.93	4,896.46	-214.43	419.75	14,529,175.20	2,092,790.83	39.997341	-109.384815
5,036.00	1.71	172.57	4,990.42	-216.97	420.08	14,529,172.67	2,092,791.20	39.997334	-109.384814
5,131.00	0.77	110.21	5,085.40	-218.59	420.86	14,529,171.06	2,092,792.01	39.997330	-109.384811
5,225.00	0.79	117.56	5,179.39	-219.11	422.03	14,529,170.56	2,092,793.19	39.997328	-109.384807
5,320.00	1.14	15.16	5,274.39	-218.50	422.85	14,529,171.19	2,092,794.01	39.997330	-109.384804
5,415.00	1.06	9.36	5,369.37	-216.72	423.24	14,529,172.97	2,092,794.37	39.997335	-109.384802
5,509.00	0.70	18.77	5,463.36	-215.32	423.57	14,529,174.38	2,092,794.67	39.997339	-109.384801
5,604.00	0.35	62.10	5,558.35	-214.64	424.01	14,529,175.07	2,092,795.10	39.997341	-109.384800
5,698.00	0.26	112.20	5,652.35	-214.58	424.47	14,529,175.13	2,092,795.55	39.997341	-109.384798
5,793.00	0.50	149.40	5,747.35	-215.02	424.88	14,529,174.70	2,092,795.97	39.997340	-109.384797

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 922-36B4BS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Site:	NBU 922-36B PAD	**MD Reference:**	GL 5015' & KB 14' @ 5029.00ft (ENSIGN 138)
Well:	NBU 922-36B4BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,888.00	0.96	15.23	5,842.35	-214.61	425.30	14,529,175.12	2,092,796.38	39.997341	-109.384795
5,982.00	0.97	8.31	5,936.33	-213.06	425.62	14,529,176.68	2,092,796.67	39.997345	-109.384794
6,077.00	0.79	16.48	6,031.32	-211.64	425.92	14,529,178.10	2,092,796.95	39.997349	-109.384793
6,171.00	0.44	23.03	6,125.32	-210.69	426.24	14,529,179.06	2,092,797.26	39.997352	-109.384792
6,266.00	0.36	62.70	6,220.31	-210.21	426.65	14,529,179.54	2,092,797.65	39.997353	-109.384790
6,361.00	0.35	87.85	6,315.31	-210.07	427.21	14,529,179.70	2,092,798.21	39.997353	-109.384788
6,455.00	0.35	119.62	6,409.31	-210.20	427.74	14,529,179.58	2,092,798.75	39.997353	-109.384786
6,550.00	0.49	136.94	6,504.31	-210.64	428.27	14,529,179.15	2,092,799.28	39.997352	-109.384784
6,644.00	0.70	145.59	6,598.30	-211.40	428.87	14,529,178.39	2,092,799.90	39.997350	-109.384782
6,739.00	0.59	271.45	6,693.30	-211.87	428.71	14,529,177.92	2,092,799.74	39.997348	-109.384783
6,834.00	1.41	321.73	6,788.29	-210.94	427.50	14,529,178.83	2,092,798.51	39.997351	-109.384787
6,928.00	1.23	319.09	6,882.26	-209.27	426.12	14,529,180.48	2,092,797.11	39.997356	-109.384792
7,023.00	0.55	40.05	6,977.25	-208.15	425.75	14,529,181.59	2,092,796.71	39.997359	-109.384793
7,117.00	0.35	76.34	7,071.25	-207.74	426.32	14,529,182.01	2,092,797.27	39.997360	-109.384791
7,212.00	0.26	132.15	7,166.25	-207.81	426.76	14,529,181.94	2,092,797.72	39.997360	-109.384790
7,306.00	0.26	172.05	7,260.25	-208.17	426.95	14,529,181.59	2,092,797.91	39.997359	-109.384789
7,400.00	0.53	163.52	7,354.24	-208.80	427.10	14,529,180.97	2,092,798.08	39.997357	-109.384789
7,495.00	0.79	152.98	7,449.24	-209.80	427.52	14,529,179.97	2,092,798.52	39.997354	-109.384787
7,589.00	1.06	154.38	7,543.23	-211.16	428.19	14,529,178.62	2,092,799.21	39.997350	-109.384785
7,684.00	1.17	160.85	7,638.21	-212.87	428.89	14,529,176.93	2,092,799.94	39.997346	-109.384782
7,778.00	0.49	125.27	7,732.20	-214.01	429.53	14,529,175.80	2,092,800.60	39.997343	-109.384780
7,873.00	0.47	156.68	7,827.19	-214.60	430.02	14,529,175.22	2,092,801.10	39.997341	-109.384778
7,968.00	0.60	166.82	7,922.19	-215.44	430.29	14,529,174.38	2,092,801.38	39.997339	-109.384777
8,062.00	0.77	168.95	8,016.18	-216.54	430.52	14,529,173.29	2,092,801.64	39.997336	-109.384776
8,157.00	0.79	183.65	8,111.17	-217.82	430.60	14,529,172.01	2,092,801.74	39.997332	-109.384776
8,251.00	0.88	176.62	8,205.16	-219.19	430.60	14,529,170.64	2,092,801.77	39.997328	-109.384776
8,440.00	1.43	165.81	8,394.13	-222.93	431.27	14,529,166.92	2,092,802.50	39.997318	-109.384774
8,535.00	1.32	159.83	8,489.10	-225.10	431.93	14,529,164.75	2,092,803.20	39.997312	-109.384771
8,629.00	1.06	174.42	8,583.08	-226.98	432.39	14,529,162.88	2,092,803.70	39.997307	-109.384770
8,724.00	1.04	153.44	8,678.06	-228.63	432.86	14,529,161.24	2,092,804.20	39.997302	-109.384768
8,781.00	1.32	141.46	8,735.05	-229.61	433.50	14,529,160.28	2,092,804.85	39.997300	-109.384766
LAST SDI MWD PRODUCTION SURVEY									
8,840.00	1.32	141.46	8,794.04	-230.67	434.35	14,529,159.23	2,092,805.72	39.997297	-109.384763
SDI PROJECTION TO BIT									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
165.00	164.99	0.51	-1.08	FIRST SDI MWD SURFACE SURVEY
2,500.00	2,461.87	-159.63	331.73	LAST SDI MWD SURFACE SURVEY
2,610.00	2,569.70	-166.60	352.30	FIRST SDI MWD PRODUCTION SURVEY
8,781.00	8,735.05	-229.61	433.50	LAST SDI MWD PRODUCTION SURVEY
8,840.00	8,794.04	-230.67	434.35	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-22650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-36B4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047516110000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6524

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0682 FNL 2264 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 36 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 8/27/2015	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: TUBING FAILURE

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A WORKOVER FOR TUBING FAILURE HAS BEEN COMPLETED ON THE NBU 922-36B4BS WELL. PLEASE SEE THE ATTACHED OPERATIONS SUMMARY REPORT FOR DETAILS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 06, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kristina Geno	720 929-6824	Regulatory Analyst
SIGNATURE N/A		**DATE** 12/30/2015

RECEIVED: Dec. 30, 2015

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36B4BS RED		Spud date: 1/10/2012	
Project: UTAH-UINTAH	Site: NBU 922-36B PAD		Rig name no.: MILES-GRAY 1/1
Event: WELL WORK EXPENSE	Start date: 8/20/2015		End date: 8/24/2015
Active datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
8/12/2015	7:00 - 11:00	4.00	MAINT	35		P		WELL NAME: NBU 922-36B4BS Job Code: 80012176 WINS #: ZID: CTS953 FOREMAN: V1-Ryan Kunkel MECHANICAL: Craig Massey SLICKLINE COMPANY JDM SLICKLINE OPERATOR Cade Goodridge TEL.NUMBER: 435-828-0593 8/12/2015 Ex. mm/dd/yy JOB DESCRIPTION Pulled Viper plunger (1.88). Pulled Latch down spring @ 7105'. Pulled tubing stop @ 7106'. RTP. TP=519, CP=520. FLUID LEVEL N/A SEAT NIPPLE DEPTH SN TYPE X TD (Max Depth) 7105
8/20/2015	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 8:30	1.25	MAINT	30		P		MIRU. LAY PUMP LINES, ETC.
	8:30 - 9:30	1.00	MAINT	30	F	P		FCP & FTP= 60#. CNTRL TBNG W/ 20BBLS TMAC. CNTRL CSNG W/ 20BBLS TMAC. NDWH. UN-LAND TBG TO MAKE SURE IT WAS NOT STUCK (GOOD). LAND TBG BACK ON HANGER. NUBOP. R/U FLOOR & TBNG EQUIP. UN-LAND TBNG.
	9:30 - 17:00	7.50	MAINT	31	I	P		P/U & RIH W/ 20JTS 2-3/8" P-110 TBNG + 2-3/8" P-110 X 6' PUP JT AS MARKER. T/U @8781'. NO FILL (BTTM PERF @8721'). POOH WHILE STD BACK 20JTS USED TO T/U. MIRU SCANNERS. POOH WHILE SCANNING & INSPECTING 220JTS 2-3/8" J-55 TBNG. RDMO SCANNERS AFTER JT #220 DUE TO CONCERN WITH POOR VISIBILITY & VERY BAD TBNG. L/D REMAINING 37JTS. SCAN & INSPECTION RESULTS AS FOLLOWS:\n\nY-BND= 88JTS\nB-BND= 6JTS. DUE TO MILD INTERNAL PITTING.\nR-BND= 163JTS. JT# 95 THRU JT# 149 MODERATE INTERNAL PITTING (MOST JTS JUST OVER 30% KICK OUT POINT). JT# 150 THRU JT # 214 HEAVY INTERNAL PITTING. JT# 214 THRU JT#257 HAD VERY HEAVY EXTERNAL PITTING WITH MULTIPLE HOLES FOUND THRU INTERVAL. ALSO HEAVY EXT SCALE JT#220 THRU JT# 257. VERY LIGHT INTERNAL SCALE THRU ENTIRE STRING.\n\nRDMO SCANNERS. P/U & RIH W/ 3-7/8" MILL + BIT SUB + 157JTS 2-3/8" MIX STRING TBNG FROM DERRICK. SWIFN. SDFN. LOCK RAMS. LEAVE EOT @ 4897'.
8/21/2015	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.

RECEIVED: Dec. 30, 2015

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36B4BS RED		Spud date: 1/10/2012	
Project: UTAH-UINTAH	Site: NBU 922-36B PAD		Rig name no.: MILES-GRAY 1/1
Event: WELL WORK EXPENSE	Start date: 8/20/2015		End date: 8/24/2015
Active datum: RKB @5,029.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/22/E/36/0/0/26/PM/N/682/E/0/2264/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:15 - 10:30	3.25	MAINT	31	I	P		SICP & SITP= 350#. BLOW DOWN TBG & CSNG. CONT RIH W/ 3-7/8" MILL, BIT SUB & 2-3/8" P-110/J-55 MIX TBNG STRING. FALL THRU SOFT TRASH @ 8140', 7302' & 7366' (SUSPECT SCALE & FeS). CONT RIH & T/U @ 8171' PBTD W/ 277JTS TBNG + BHA.
	10:30 - 13:20	2.83	MAINT	31	H	P		MIRU AIR-FOAM UNIT. BREAK CONV CIRC IN 1HR 45MIN. CIRC WELLBORE CLEAN 1HR. NO N2 UNIT AVAILABLE. CNTRL TBG W/ 15BBLS TMAC. RDMO N2 UNIT.
	13:20 - 17:00	3.67	MAINT	31	I	P		POOH WHILE L/D 22JTS EXCESS TBNG. TOOH W/ REMAINING 255JTS. L/D MILL & BIT SUB. P/U & RIH W/ NEW 1.875" XN-NOTCH COMBO NIPPLE + 60JTS 2-3/8" MIX STRING TBNG. SWIFN. SDFN. LOCK RAMS.
8/24/2015	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 12:00	4.75	MAINT	31	I	P		SICP= 600#. SITP= 450#. BLOW DOWN CSNG TO FLOWBACK TANK. CNTRL TBNG W/ 10BBLS TMAC. FINISH RIH W/ REMAINING 195JTS 2-3/8" MIX STRING TBNG + 1.875" XN. BROACH ALL TBNG GOOD WHILE RIH W/ 1.910" BROACH. STRONG FLOW FROM WELL. LUBE IN HANGER. LAND TBNG ON HANGER. R/D FLOOR & TBG EQUIP. NDBOP. NUWH. PUMP 10GAL COMBO CHEM DOWN CSG & DISPLACE W/ 2BBLS TMAC. SWI.\n\nPRODUCTION TBNG LANDED AS FOLLOWS:\n\nKB= 14.00'\nHANGER= .83'\n161JTS 2-3/8" P-110 Y-BND TBG= 5109.46'\n2-3/8" P-110 PUP JT= 6.04'\n94JTS 2-3/8" J-55 Y-BND TBG= 2974.72'\n1.875" XN NOTCH NIPPLE= 1.05'\nEOT @ 8106.10'\n\nTWLTR= 35BBLS. C/O W/ AIR-FOAM UNIT. WELL MUST BE PURGED.
	12:00 - 16:30	4.50	MAINT	30	C	P		RDMOL. ROAD RIG TO NBU 921-16P. SPOT IN RIG. SDFN.
8/26/2015	7:00 - 13:00	6.00	PROD	42		P		SWABBING FL 5500
8/27/2015	7:00 - 11:00	4.00	MAINT	35		P		WELL NAME: Nbu 922 36B 4BS Job Code: 80012176 WINS #: ZID: CTS953 FOREMAN: V1-Ryan Kunkel MECHANICAL: Craig Massey SLICKLINE COMPANY Jdm SLICKLINE OPERATOR Bj Troendle TEL.NUMBER: 435-828-0596 DATE: 8/27/2015 Ex. mm/dd/yy stuck scale knocker, rih w jdc tool 8107 latched and pooh w scale knocker 1.85, rih w scratcher 8801 sn clean, rih w broach 8107 clean, dropped 3 chem sticks and new ips titanium and new viper and chase to 8107 rts cp 693 tp513 FLUID LEVEL 6850 SEAT NIPPLE DEPTH 8107 SN TYPE x TD (Max Depth) 8801

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36B4BS RED		Spud date: 1/10/2012	
Project: UTAH-UINTAH	Site: NBU 922-36B PAD		Rig name no.: MILES-GRAY 1/1
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:00 - 11:00	4.00	PROD	42		P		SWABBING FL 6200

RECEIVED: Dec. 30, 2015